




2018-2019 FY19 BUDGET

EFFECTIVE UTILITY MANAGEMENT *in action* UTILITY CASE EXAMPLES



MURFREESBORO
**WATER
RESOURCES
DEPARTMENT**

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Fiscal Year 2018-2019

Draft

Water Resources Operating Budgets

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About the Cover - “Effective Utility Management – Utility Case Examples”

Effective Utility Management (EUM) first made its way onto the national scene in 2008 with the release of the original *Effective Utility Management: A Primer for Water and Wastewater Utilities* (“EUM Primer”). Since the *EUM Primer’s* 2008 release, EUM has grown to be one of the most widely used management frameworks for water and wastewater utilities across the United States. It is a regular topic at utility conference sessions, it is used as a framework for several national utility award programs, and it is used in the everyday operations and management at water utilities of all sizes around the country.

In 2017, the eleven EUM Collaborating Organizations released an updated version of the *EUM Primer*, revised to reflect the evolving technologies, challenges, and operating contexts faced by utility leaders today. The case examples included in this document demonstrate a range of strategies and techniques that today’s utility leaders are using to implement EUM in their everyday work. Murfreesboro Water Resources was selected as one of five utilities adopting the concepts and tools of EUM. MWRD uses the Ten Attributes of an Effectively Managed Utility as a framework for setting future performance goals and management strategies. Every initiative, every action, every decision, and every dollar expended is now explicitly targeted at achieving one or more of these goals for the express benefit of the community.

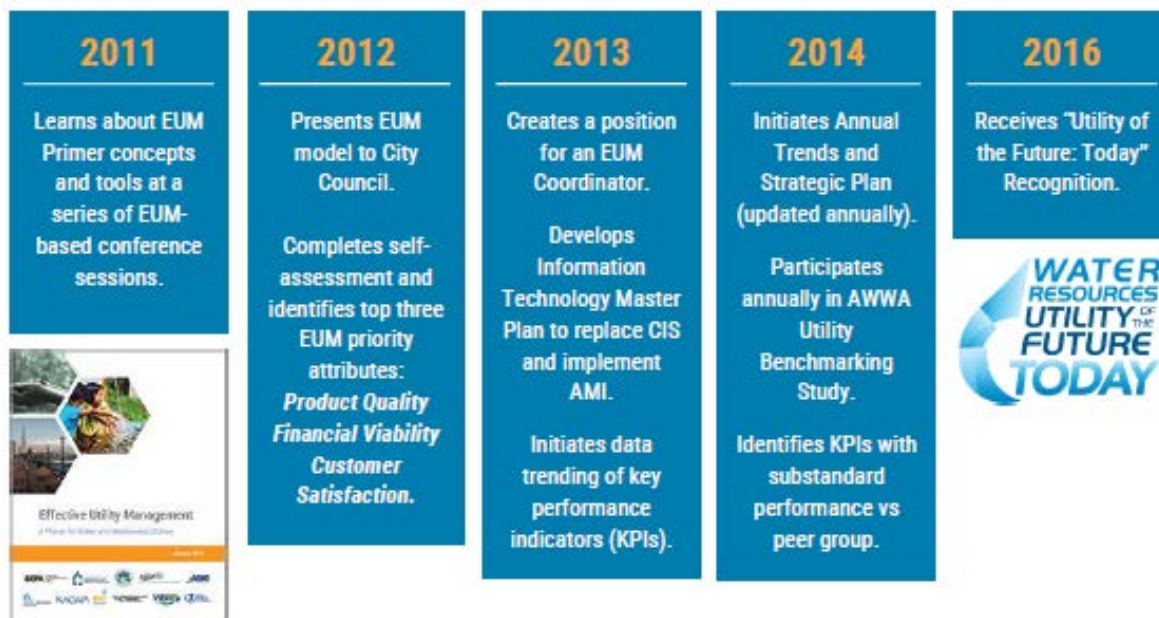


TABLE OF CONTENTS

BUDGET MESSAGE	7
COMMUNITY PROFILE.....	17
Overview	17
City Government.....	18
City of Murfreesboro Organizational Chart	19
BUDGET GUIDE	21
WATER, SEWER AND STORMWATER BUDGET HIGHLIGHTS	25
Strong and Sustainable Economic and Financial Health.....	25
Excellent Services with a Focus on Customer Service	25
Engaging our Community	25
FY 2018 Department Accomplishments	26
FY 2019 Department Goals	29
Organizational Structure.....	30
EFFECTIVE UTILITY MANAGEMENT.....	31
MWRD’s Strategic Vision	32
BENCHMARKING.....	35
Financial Viability	35
Staffing Levels	36
Customer Satisfaction	37
Infrastructure Stability.....	38
Employee and Leadership Development.....	39
Community Sustainability	40
WATER RESOURCES BUDGET SUMMARY	41
Water Resources Revenue Summary	44
Water Resources Expense Summary	45
REVENUE ITEMIZATION.....	47
Water Revenue	48
Sewer Revenue	49
Repurified Water Revenue	50

Water taps / Sewer taps (System Development Charges)	51
Special Sewer Assessment Fees.....	52
FY19 Proposed Rate Schedule	53
<i>Draft Ordinance</i>	55
<i>Bill Amount for Selected Residential Monthly Consumption</i>	58
<i>Rate Affordability</i>	59
<i>Rates, Fees and Charges Objectives</i>	60
DIVISION NARRATIVES – ACCOMPLISHMENTS AND GOALS.....	61
Department Summary	61
Administration & Customer Service	63
Engineering	67
Operations and Maintenance	71
Drinking Water Treatment Plant	75
Water Resource Recovery Facility	79
DEBT SERVICE (CAPITAL OUTLAY).....	85
RATE FUNDED CAPITAL EXPENDITURES.....	89
WORKING CAPITAL RESERVES	91
STORMWATER	95
PROPOSED BUDGET STORMWATER	98
CAPITAL IMPROVEMENTS – STORMWATER	99
APPENDICES.....	101
SYSTEM INFRASTRUCTURE REPORT 4/30/18	101
FY19 RATE-FUNDED CAPITAL DETAILS.....	103
DETAILED BUDGET ITEMIZATION.....	107

BUDGET MESSAGE

April 30, 2018

Honorable Mayor and Members of the City Council and Water Resources Board,

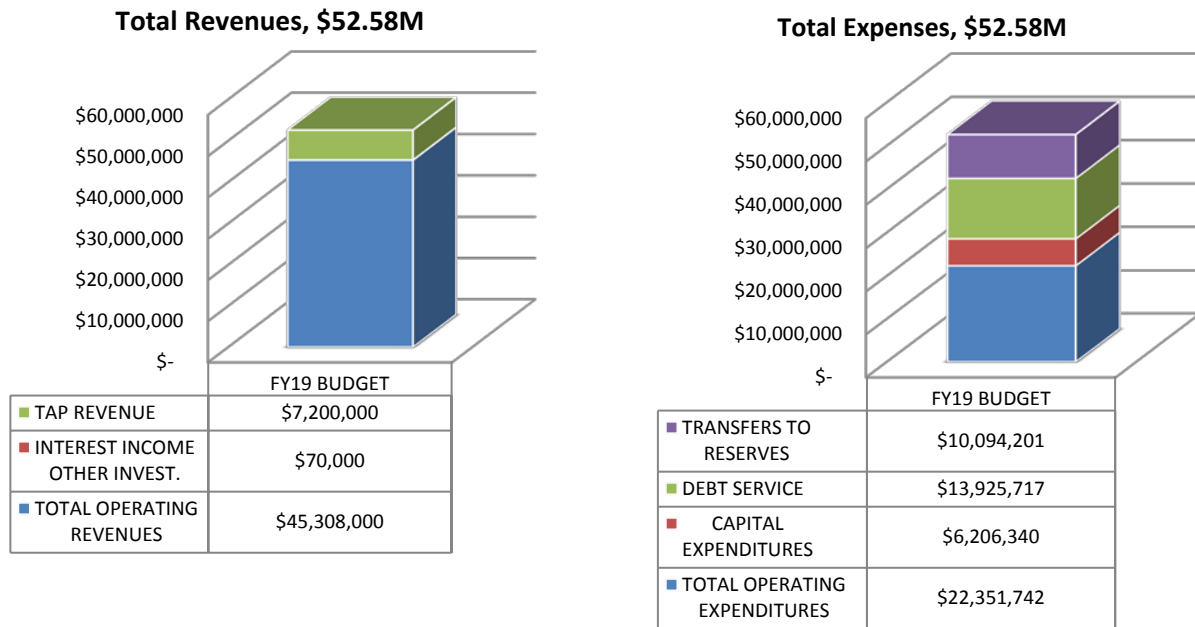
RE: Draft 2018-19 (FY19) Budget

I submit to you the 2018-2019 (FY19) Draft Budget for review and consideration. It is presented in the same format that the City Budget has been prepared. As the City budget is amended so will the Water Resource and Stormwater budgets.

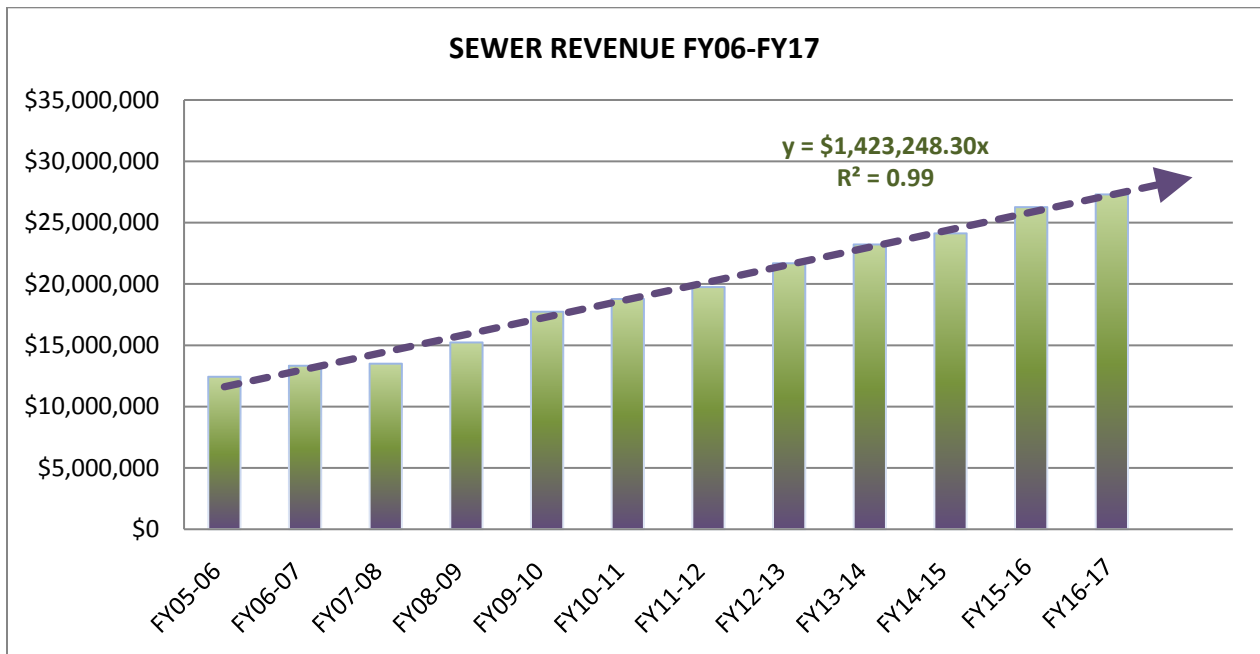
The multiple accomplishments of the Murfreesboro Water Resources Department (MWRD) for FY18 are detailed on page 25 of this document. The Department's highlighted or most significant accomplishments for FY18 are associated with completing the construction of the Phase 4D Sinking Creek Water Resource Recovery facility, completing construction of Pumping Station #13 on DeJarnette Lane (across from Oakland High School), initiating our Help 2 Others (H2O) program allowing voluntary to help supplement low income customers' ability to pay their water and sewer bills, gaining participation in our Advanced Metering Infrastructure (AMI) customer portal that allows customers to set up high usage limits and early leak notifications, completing a pilot study to generate Class "A" biosolids using lime pasteurization (creating a commodity fertilizer in lieu of a landfilled waste product), and issuing a request for competitive to install a small-scale biosolids dryer to manufacture class "A" biosolids.

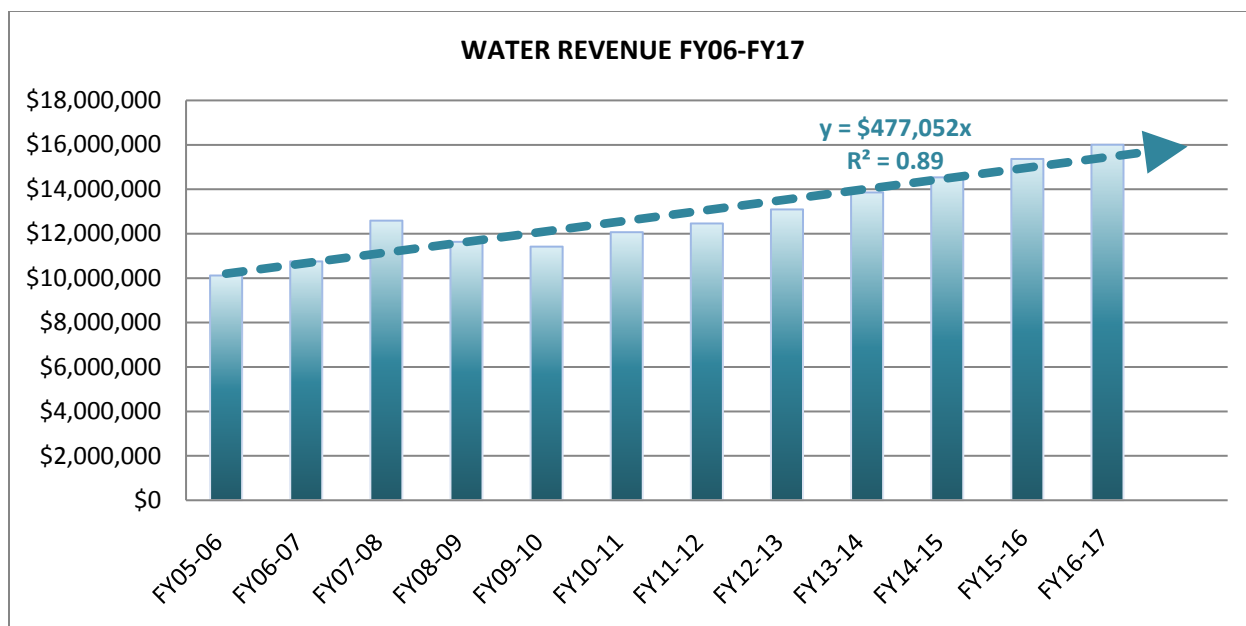
The Department's FY19 goals are detailed on page 29. The most significant ongoing projects by the Department are the anticipated completion of the Water Resources Integration Plan (WRIP) that complements the City's Comprehensive Plan; ensuring proper water resources and infrastructure are in place for supporting the vision for growth in Murfreesboro's Urban Growth Boundary (UGB). Completion of the Ransom Drive pumping station. Also, the Department expects to complete a Waste Load Allocation (WLA) model in conjunction with development of a new National Pollutant Discharge Elimination System (NPDES) permit rationale. Customer Service renovations are planned to occur in FY19. Finalizing the Northeast Pumping station site, hydraulics and force main alignment is a priority. Staff hopes to start property appraisals in support of upcoming easement acquisition. Staff expects to install a small-scale biosolids drying unit to manufacture Class "A" biosolids; a fully recyclable and beneficial soil amendment.

The Water Resources FY19 draft budget is balanced and is not expected to deviate significantly from the overall revenue and expense total of \$52,578,000. This amount is a \$1,414,00 over the FY18 budget and \$80,000 under FY18 projected revenues.



The \$1,414,000 increase in budget can be attributed to sewer and water revenue trends totaling approximately \$1,900,000 (see attached charts) minus approximately \$450,000 that will not be realized because of previous allowance reductions for meter sizes greater than one (1) inch.





\$2,826,201 of sinking funds are being earmarked to assign the excess revenue for future construction or repair and replacement. The sinking funds identified below have been assigned rate revenue since FY12. The total FY19 earmarked amounts and FY12-18 “banked” amounts are as tabulated below:

Table 1: Designated Sinking Funds FY12-18 and FY19 Budget

	FY12-18 Balance	FY19 Budget	
		Designated	Balance
General	1,400,000		1,400,000
Lift Station Replacement	626,232	250,000	876,232
NE FM & PS	2,391,254	500,000	2,891,254
WRRF Sludge/Biosolids	1,800,000	500,000	2,300,000
Walter Hill Dam Repairs	125,000	125,000	250,000
Sewer Rehab		1,000,000	1,000,000
Future Debt	4,159,380		4,159,380
Future Capital Expense	6,169,768	418,701	6,588,469
TOTALS	16,671,634	2,793,701	19,465,335

The use of sinking funds reduces the need to incur debt thereby alleviating the need for future rate increases.

The Murfreesboro Water Resources Department was provided a cost of service study (COSS) from Jackson Thornton Utilities Consultants for FY2017. That study was presented at the February 27, 2018 Board meeting. Jackson Thornton has since that time provided staff a pro forma for FY2022. The FY2022 pro forma was run using two scenarios:

- 1) A “Base” scenario assuming no new debt was added between FY17 and FY22. This assumes using reserves on hand to pay for \$35,000,000 in capital projects.
- 2) A scenario where \$35,000,000 in debt (20-yr @ 2%) is incurred to pay for the Northeast Regional Pumping Station and Force main as well as the necessary capital equipment to perform full scale

biosolids drying at the Water Resource Recovery Facility (WRRF). Full payback of the total loan amount was assumed to start in FY2022.

Table 2 compares the FY22 pro forma revenue requirements for the Water Resources fund to the FY17 actual rate revenue over-recovered. This scenario assumes no debt will be incurred within the five-year timeframe.

Table 2: FY17 Rate Revenue compared to FY22 Pro Forma (No Debt Scenario)

	Water	# Annual Billings	Sewer	# Annual Billings	Total
FY22 Pro Forma	\$13,937,439	313,554	\$22,820,180	518,318	\$36,757,619
FY17 Rate Revenue	\$14,675,810	313,554	\$26,963,334	518,318	\$41,639,144
Difference	\$(738,371)	0	\$(4,143,154)	0	\$(4,881,525)

The total difference of \$(4,881,525) is the “revenue surplus” that the Department’s anticipates over the five-year timeframe. Chart 2 below better illustrates the historical cost of service studies and the FY22 pro forma projected revenue requirements. The over-recovery of FY17 cost of service by \$2.8M covers the anticipated FY22 added expenses by approximately \$400k. Add the \$400k to a \$4.4M reduction in debt service equals the \$4.88M revenue surplus.

Chart 2: Historical COS Studies and FY22 Pro Forma (No Debt Scenario)

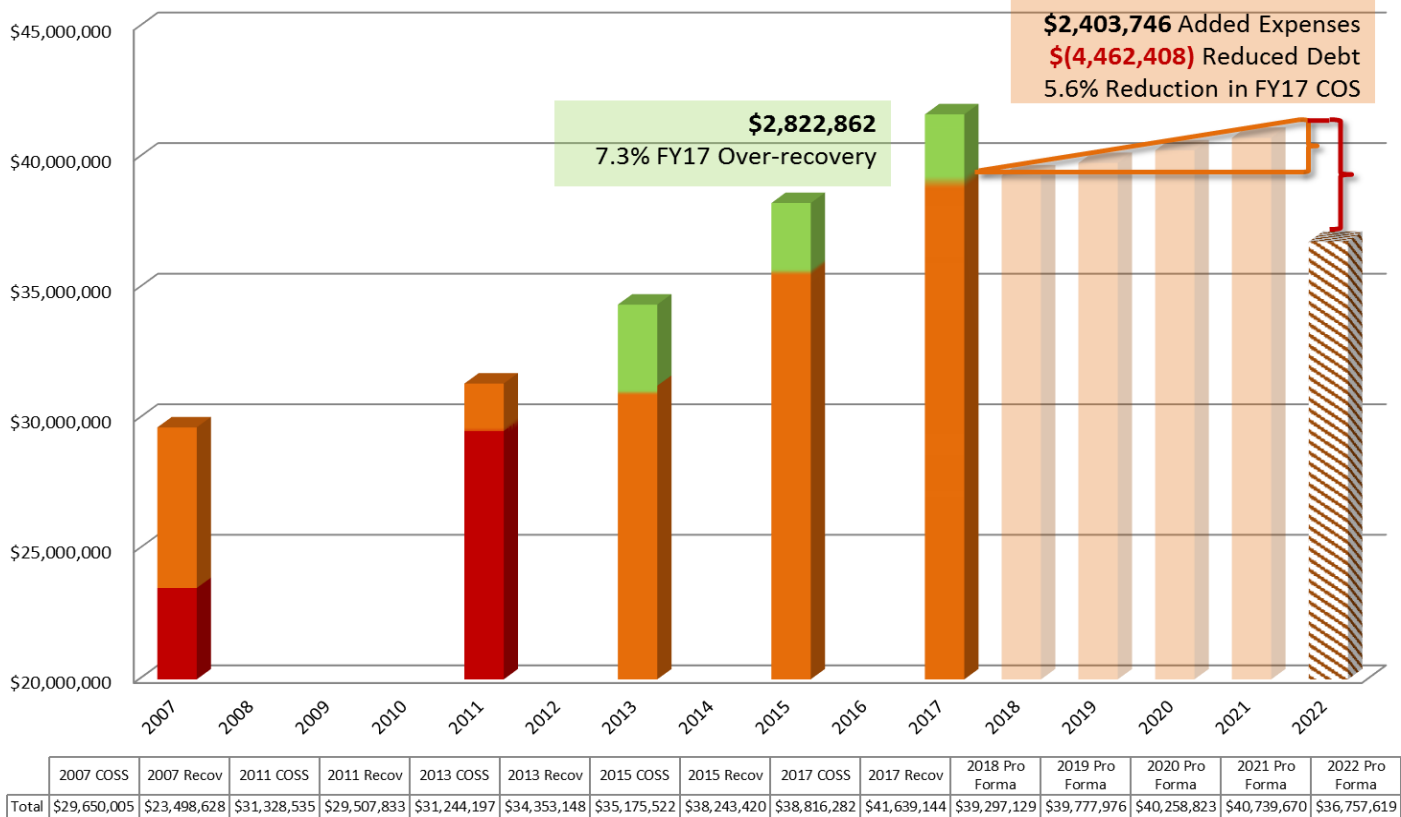


Table 3 compares the FY22 pro forma revenue requirements for the Water Resources fund to the

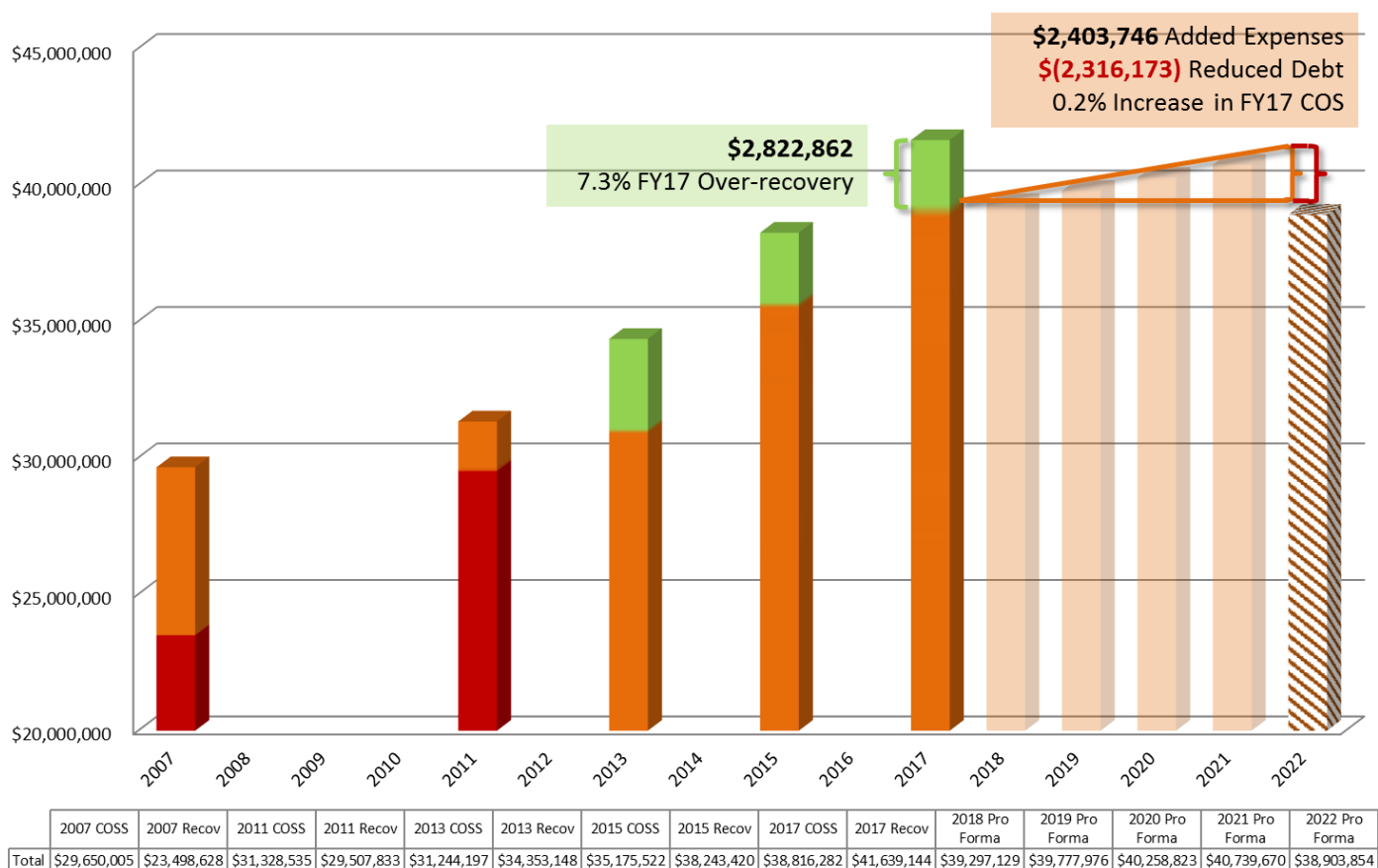
FY17 actual rate revenue over-recovered. This scenario assumes \$35,000,000 will be incurred within the five-year timeframe to pay for the Northeast Regional Pumping Station and Force main and the capital equipment for full scale biosolids drying at the Water Resource Recovery Facility (WRRF).

Table 3: FY17 Rate Revenue compared to FY22 Pro Forma (\$35M Debt Scenario)

	Water	# Annual Billings	Sewer	# Annual Billings	Total
FY22 Pro Forma	\$13,937,439	313,554	\$24,966,415	518,318	\$38,903,854
FY17 Rate Revenue	\$14,675,810	313,554	\$26,963,334	518,318	\$41,639,144
Difference	\$(738,371)	0	\$(1,996,919)	0	\$(2,735,290)

The total difference of \$(2,735,290) is the “revenue surplus” that the Department’s anticipates over the five-year timeframe while incurring \$35,000,000 in debt. Chart 3 below better illustrates the historical cost of service studies and the FY22 pro forma projected revenue requirements. The over-recovery of FY17 cost of service by \$2.8M covers the anticipated FY22 added expenses by approximately \$400k. Add the \$400k to a \$4.4M reduction in debt service subtracting a \$2.1M addition to debt service equals the \$2.7M revenue surplus.

Chart 3: Historical COS Studies and FY22 Pro Forma (\$35M Debt Scenario)



Based on the debt service coming off the rate revenue requirements for sewer and the over-recovery witnessed in FY17 that will cover the next five (5) years of anticipated expenses, staff does not recommend a rate increase for FY19.

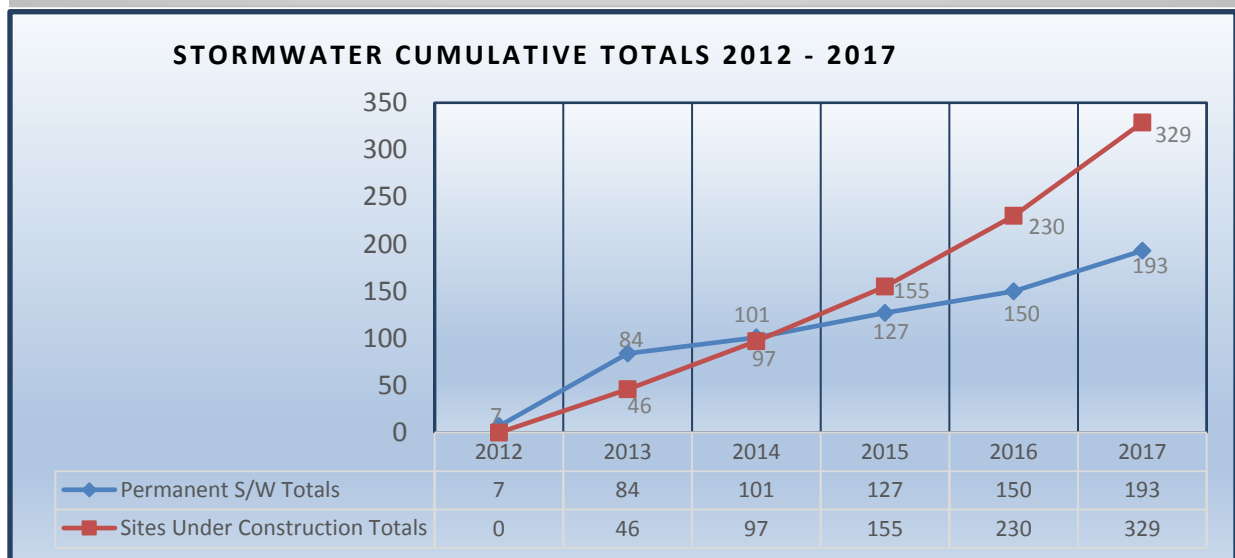
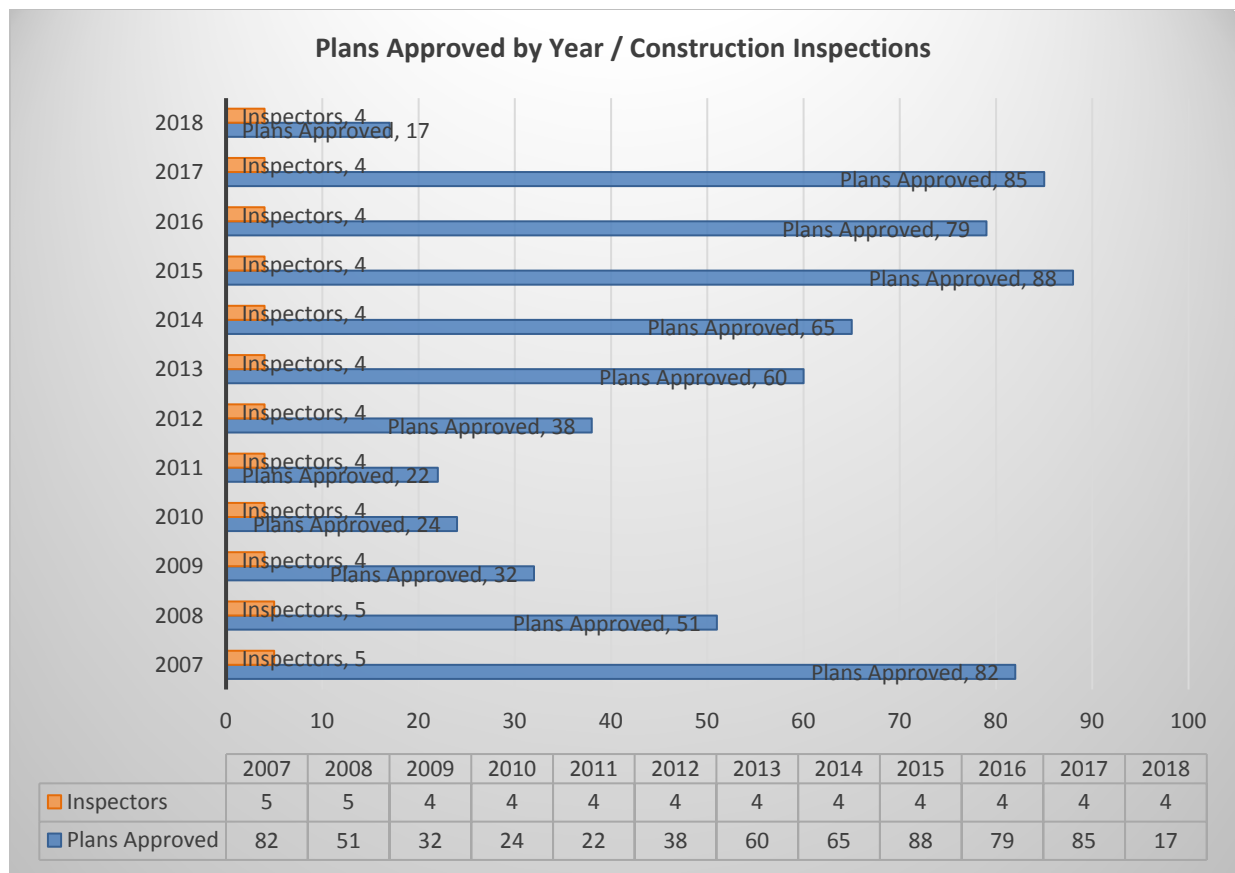
The water rate is recommended to remain at \$3.66 per 1,000 gallons (\$0.00366 per gallon) and the sewer rate is recommended to remain at \$5.67 per 1,000 gallons (\$.00567 per gallon). The average monthly bill for an MWRD customer that uses 5,700 gallons per month for water and 4,700 gallons per month of sewer will remain the same, or \$65.50 per month.

Staff is recommending changes to the system development charges (a.k.a., connection fees) for different nonresidential uses. Restaurants, Hotel/motel, hospitals and nursing homes and schools are assessed per seat, per room, per bed and per student, respectively. The water and sewer connection fees for these uses are being recommended as essentially doubled. This recommendation is estimated to increase the Department's working capital reserves by approximately \$215,000 annually.

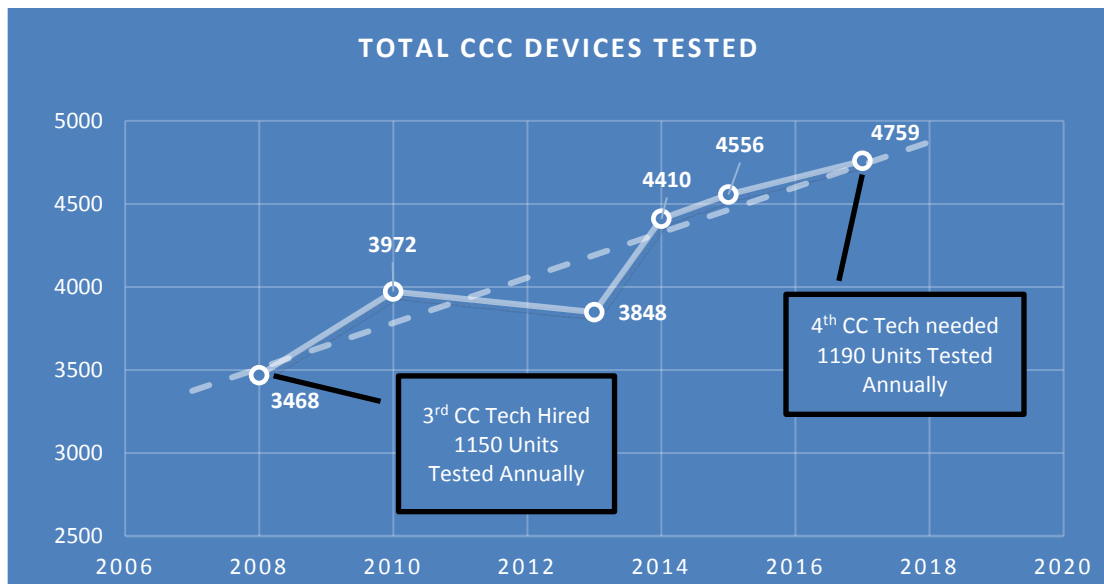
The FY19 total operating expenses, including benefits and payroll, increased \$888,123 or 4.14% over the FY18 budgeted amount.

The FY19 budget includes five (5) additional staffing requests; four (4) for the water resources department and one (1) for the stormwater department) and three (3) reclassifications resulting in promotions, one (1) full-time position requested as being split into two (2) part-time positions, and one (1) vacant reclassification request. The total net increase anticipated in the personnel budget is \$313,345 representing a 2.9% increase. There are a total of 172 full time and six (6) part time positions budgeted for FY19. Included in the full-time positions are nine (9) positions in the stormwater department.

1. Administration/Finance – One (1) new full-time position is requested for a Senior Accountant (CPA/CMFO). This position is intended for succession planning of the CFO position currently filled by Mr. Doug Swann.
2. Engineering – Two (2) new full-time positions are requested for the Engineering Division. One (1) full-time Water/Wastewater Project Inspector and one (1) Stormwater Project Inspector. These two positions are requested due to growth and maintaining a level of service for inspections as projects continue to be constructed in the Department's service areas. Projects are back to the level that supported five W/WW project inspectors in 2007, and stormwater projects are at a level that support two (3) stormwater inspectors.



3. **Operations & Maintenance – O&M** is requesting one (1) new full-time CCTV Technician position. This position is also a growth-related position to maintain levels of service in inspecting the sanitary sewer system.
4. **Water Plant – the Cross Connection** subdivision based at the water plant is requesting an additional Cross Connection Technician. This position is also growth related and is required to inspect and test all backflow prevention devices in commercial and industrial customers' facilities. Current levels of inspection support a fourth (4) Cross Connection Technician.

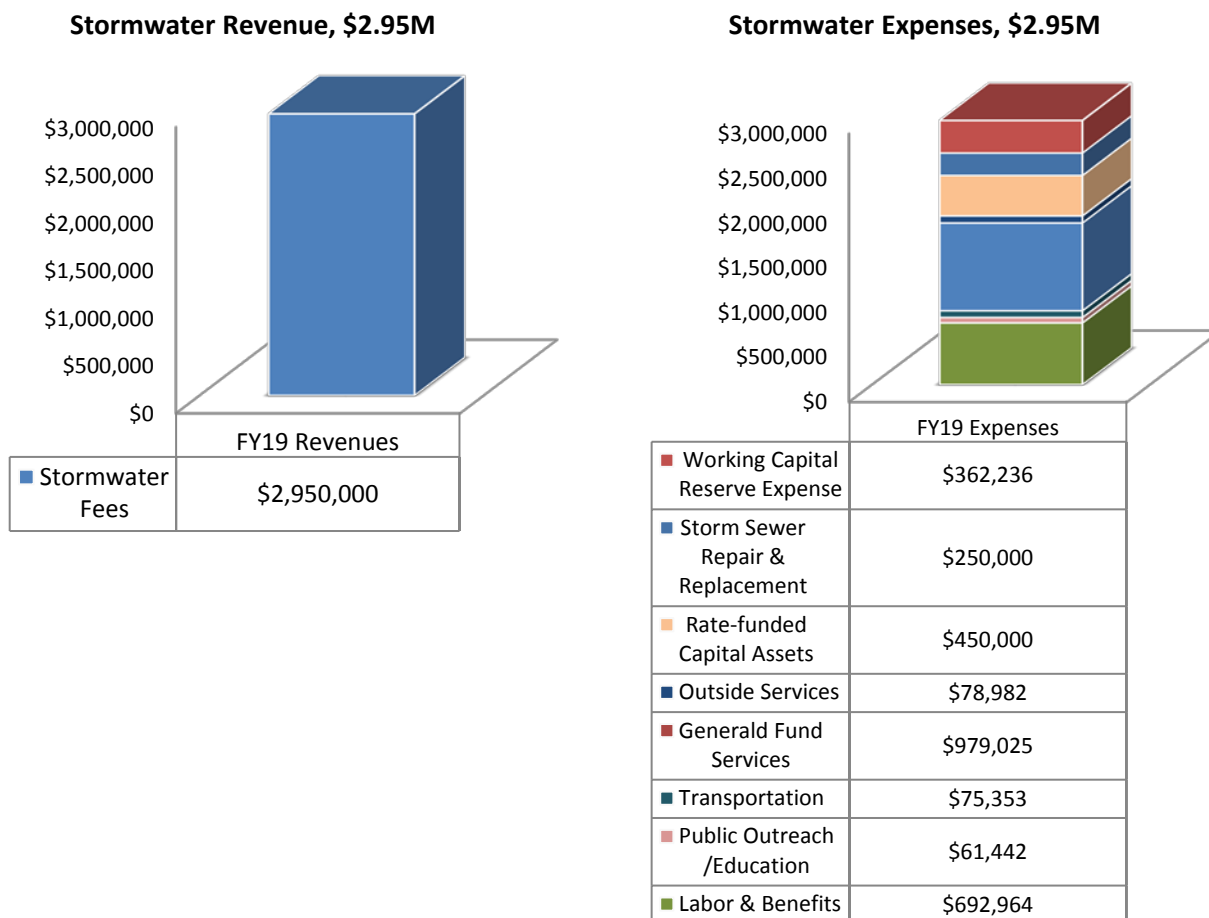


5. Three (3) internal promotions are requested due to duties commensurate with other job classifications.
 - a. Two (2) promotions from Equipment Operator to Heavy Equipment Operator at Operations and Maintenance division are requested.
 - b. One (1) promotion from Accounting Specialist to Accountant is requested in the Admin/Finance division.
6. The Water Resource Recovery Facility (WRRF) has one vacant operator position in the current FY18 personnel budget that it would request to split into two (2) part-time operator positions as part of the FY19 personnel budget. This would afford the WRRF at least two (2) operators per shift for safety purposes but not increase the payroll budget by having to hire two (2) full-time operators.
7. In last year's budget, staff requested an Engineer-in-Training (EIT) with the option of splitting that full-time position into two (2) engineering co-ops. This position was never filled. The request for an EIT was due to the lack of ability to recruit a Professional Engineer (PE) at the proper annual salary. With the new classification/compensation study being developed internally to the City, staff would like to request approval in the FY19 budget to have the option of hiring a PE or EIT, depending on the market availability of either of these positions and the ability to attract a candidate based on the City's new compensation plan.
8. The Department has had a vacant Engineering Support Specialist since November 2017. The primary function of that position is to review CCTV footage and recommend remediation techniques for repair, replacement and rehabilitation of the sewer system. As part of the FY19 personnel budget, staff would like to expand this position to a GIS mapping technician to cover the aforementioned duties plus incorporating this work into our GIS system. Our next large Information Technology enterprise endeavor is to begin implementing a Computerized Maintenance Management System (CMMS). The horizontal CMMS systems we are looking at will integrate with ArcGIS and create a more sophisticated process to determine consequence and likelihood of failure, which will prioritize MWSD's repair and rehab efforts in both the Department's sewer and water systems.

The rate funded capital budget is \$6,206,340, which is an increase of \$277,720 from the FY18 budget.

MWRD's goal is a minimum of \$5 million per year in rate-funded capital purchases. With increased projected revenues from FY18 factored into the FY19 budget, staff is investing more into the Department's sinking funds for future major repair and replacement projects. Debt service expense increased \$527,204 as compared to the FY18 budget. This increase is due to the Murfreesboro Water Resources Recovery Facility (WRRF) expansion coming into the full debt service of the \$30.5M SRF loan used to fund the improvements.

The Stormwater Fund budget is independent of the Department budget. It is funded from revenue based on a user fee of \$3.25 per single family equivalent. The fund will be in its tenth year in FY19. No change is recommended to the fee. The net revenue generated by the stormwater fee is budgeted at \$2.95M with operation expenses budgeted at \$1,887,764 and rate funded capital expenditures at \$450,000.



The rate funded stormwater capital expenditures include a jet-vac truck for cleaning storm sewers and a new truck for the stormwater inspector. The anticipated excess funds above operating expenses and rate funded capital expenditures are \$362,236. The stormwater fund has developed an extensive five (5) year Capital Improvements Plan, currently totaling \$5,675,000 from FY17 through FY21. A five (5) year pro forma has been developed to demonstrate the banking of excess revenues to pay for these proposed capital improvements without incurring any debt. Financial policies for the stormwater enterprise fund were adopted by the Water Resources Board and City Council on May 21, 2013 and July 11, 2013, respectively. An amendment to these policies was approved in FY18 to allow the minimum working reserve balance to be lowered to no less than three (3) months of operating expenses.

COMMUNITY PROFILE

OVERVIEW

Overview - Water Resources Department

Water service is provided through approximately 26,944 meter connections within the Murfreesboro Water Resources Department water service area (35.54 square miles), and sanitary sewer service is being provided to areas served in the Consolidated Utility District water service area for an estimated additional 19,208 sewer only customers. The City operates a separate fund for Stormwater services and has 36,068 customers. There are 61.16 square miles within the city limits and 179.6 square miles within the Murfreesboro Urban Growth Boundary (UGB). The City also operates the largest reclaimed water system in the State of Tennessee; having 166 customers and delivering between 4 to 8 million gallons per day of high quality repurified water.

The Murfreesboro Water Resources Department (Department) is an enterprise fund of the City of Murfreesboro. The fund is managed to fully recover the expenses of providing services from users (as opposed to taxes) and to build and preserve a substantial, long lived capital asset base in the treatment facilities, water distribution and storage system, wastewater collection system and repurified water distribution and storage system. Because utilities have many characteristics of a business, business accounting and financial management rules are usually applied to enterprise funds. Because of this, the presentation of the Department differs from that of the City General Fund Budget.

The Department's aggressive maintenance and replacement programs result in a greater asset value. The Total Asset Value as of June 30, 2017 was \$466,518,615, a 2.2% decrease from FY16. The Department financial and management model is to improve infrastructure each year, strive to provide excellent customer service, make knowledge-based decisions, and stretch the dollar to get the maximum benefit and minimize waste.

The employees of the Department are dedicated to providing its customers with a bountiful supply of clean, safe water, sanitary sewer service and recycled water service in the most economical and efficient way possible. The Department's responsibility to manage the City's municipal separate storm sewer system (MS4) National Pollutant Discharge Elimination System (NPDES) permit, which directly affects the quality of stormwater runoff within the City, allows for a holistic approach to affect the quality of the water we withdraw from our natural resources and the quality of the water returned to our streams, rivers and lakes.

There are a total of 172 full time and six (6) part time positions in water resources, which includes nine (9) full time stormwater positions budgeted for FY19.

There are three (3) licensed professional engineers, one (1) engineer-in-training, one (1) certified public accountant, three (3) professional operators, and fifty-three (53) employees with a Tennessee Certified Operators License for one or more of the following: water treatment, wastewater treatment, water distribution and wastewater collection system.

CITY GOVERNMENT

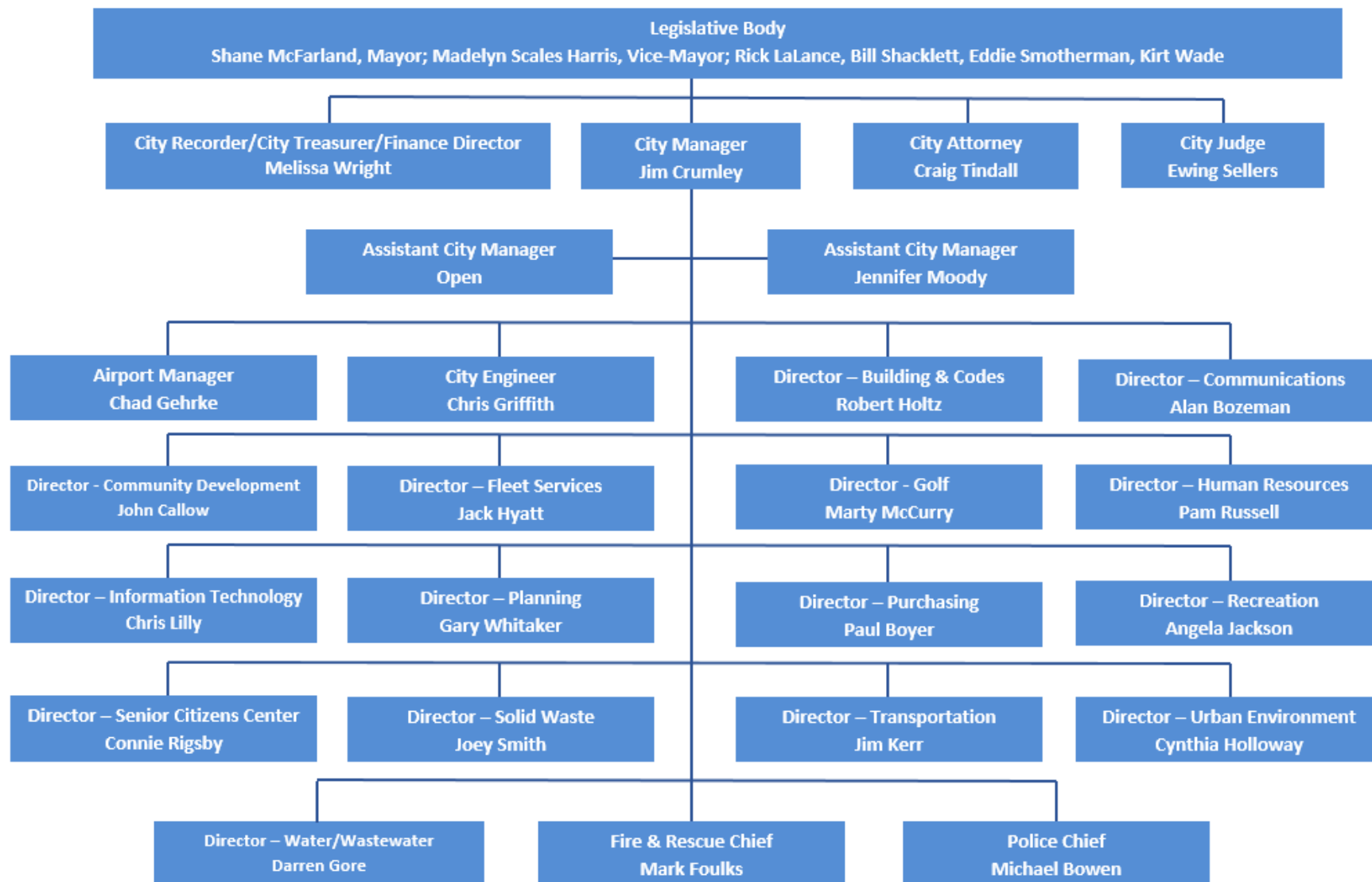
The City operates under a Council-Manager form of government. The governing body is the City Council, which consists of seven members who serve four-year terms of office. Non-partisan elections for City Council are held in even numbered years on a staggered basis. City Council members are elected at large. The City Council is responsible for adopting ordinances, the annual budget, appointing committees and establishing policies. The City Council appoints a City Manager, who is responsible for carrying out the policies and ordinances of the City Council and the day-to-day operations. The City Manager appoints and supervises the various department heads of the City.

The Water and Sewer Department was created in 1958 by the adoption of a city ordinance. The powers and duties of the Board are established in Article IV of the Murfreesboro City Code. A seven-member citizen advisory board has the oversight of department policy and financial operations. The Board makes recommendations to the City Council. User charges provide the sole source of revenue for the Water and Sewer Department. No general tax base revenues are received.

The Murfreesboro Water and Sewer Board held its first meeting on December 12, 1958. The first members consisted of C. B. Huggins, Herman O. Jones (Councilman), Jennings A. Jones, Sam Lasseter, and Fount Pitts. At that time, the Mayor was A. L. Todd, Jr., City Manager was H. L. McCullough, and Joe W. Lovell was Superintendent of the Water Department. The Director of the Department reports to the City Manager. There have been five (5) Directors over the past fifty-five years; Joe Lovell, Jim Clark, Doug Miller, Joseph Kirchner and Darren Gore.

As of July 1, 2017, The Water and Sewer Department was newly titled the Water Resources Department. The Water Resources Board meetings are held on the fourth Tuesday of each month at 3:30 p.m., at 1725 South Church Street, Murfreesboro.

CITY OF MURFREESBORO ORGANIZATIONAL CHART



BUDGET GUIDE

OVERVIEW

A budget is a financial and operating plan for a city enterprise fund for a period called a “fiscal year.” The budget is a plan for the use of the fund’s resources. Through these resources, services are provided to meet the needs and desires of water and sewer customers.

The City of Murfreesboro’s and Water Resources Department’s fiscal year begins on July 1 and ends on June 30. The fiscal year that begins on July 1, 2018 is referred to as FY19.

BUDGET PROCESS

The preliminary steps in the budget include a review of current economic conditions, revenue projections, community input, program initiatives, long range plans and federal and state mandates.

The departmental budget requests are submitted to the Director. These budget requests are reviewed by the Director and Assistant Director of Finance and Administration. The City Charter provides that the City Manager must prepare a proposed budget and submit it to the City Council not later than May 15 each year.

The Water Resources Board (Board) reviews the proposed budget at its April meeting. The Board recommends to the City Council the draft budget and any changes to rates and fees. The Director presents the draft budget and related recommendations to the City Council. The City Council conducts a public hearing on the proposed budget to obtain additional citizen input on the spending plan. Following the public hearing, the City Council amends the draft budgets as needed and adopts a budget ordinance for the city along with water and sewer rate ordinance and the water resources budget resolution.

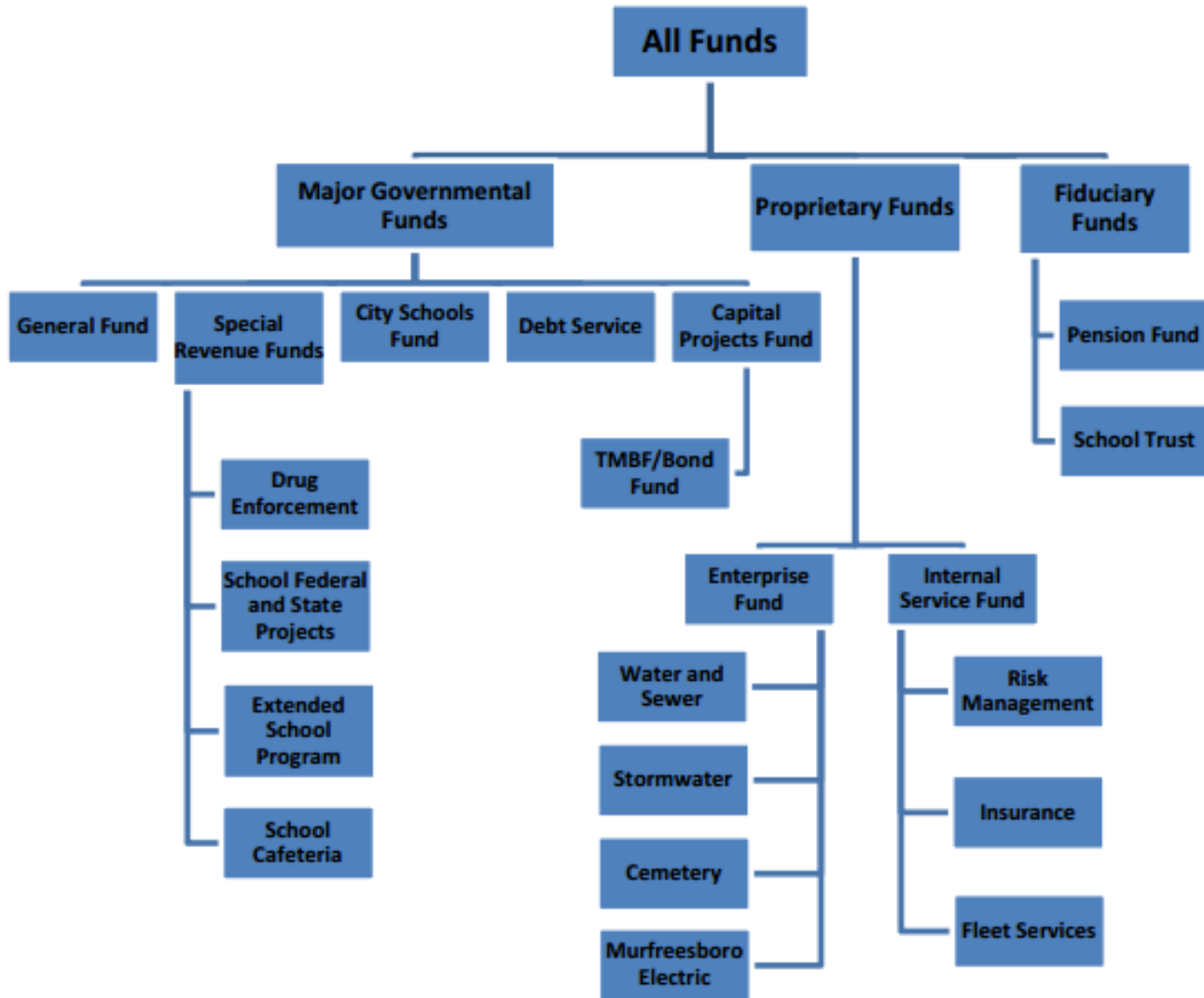
The WATER RESOURCES Department follows the general timeline in setting rates to coincide with the Department Budget Development:

- October Audit completed – Assessment of Working Capital Reserves available as of June 30.
- Cost of Service Study and Pro Forma commissioned in Sept/Oct. – Available by January.
- Capital Improvements Plan updated December – New Debt Service Cash Flow inserted into *Trailblaze* Financial Model; Large Capital Outlay from Working Reserves Identified
- January/February – Board and Council Update on Revised CIP, Debt Service and Rate Design
- March - Initiate Preliminary Budget

MONITORING OF REVENUES AND EXPENDITURES

Through the course of each fiscal year, the Director, Assistant Director of Finance and Administration and division heads monitor the budget established by City Council.

FUND OVERVIEW



FUND DESCRIPTIONS

A fund is established to account for a specific activity or purpose. Law mandates the creation of some funds. Other funds are established by management to demonstrate financial compliance with budget or legal requirements. All the funds of the City of Murfreesboro can be divided into three categories: governmental funds, proprietary funds, and fiduciary funds.

GOVERNMENTAL FUNDS

Governmental funds are used to account for most of the City's basic services. Governmental fund information is useful in determining whether there are more or fewer financial resources that can be spent in the near future to finance the City's programs. The City of Murfreesboro maintains twenty-nine (29) individual governmental funds. The modified accrual accounting method is used to account for the City's general government operations. This accounting method measures cash and all other financial assets that can be readily converted into cash.

Murfreesboro City Schools prepares a separate budget document.

PROPRIETARY FUNDS

There are two types of proprietary funds: enterprise funds and internal service funds.

Enterprise funds are used to account for operations that are financed and operated in a manner similarly to private business enterprises. The City's water resources department and electric department are the largest of these funds and prepare their own budget documents. While funds are appropriated by City Council, these enterprise funds are not presented in this document.

Internal service funds are used to account for activities that provide supplies and services for the City's other programs and activities. These services predominantly benefit governmental functions such as the fleet maintenance of vehicles and for its self-insurance programs.

FIDUCIARY FUNDS

Fiduciary funds are used to account for resources held for the benefit of parties outside of the government. The resources of those funds are not available to support the City's own programs. The accounting used for fiduciary funds is much like that used for proprietary funds. The Pension Fund is accounted for in this category.

EMPLOYEE COMPENSATION

Department employees are covered under the city's Classification and Compensation Plan.

WATER, SEWER AND STORMWATER BUDGET HIGHLIGHTS

The City Manager, in collaboration with the City Council, identified and established six priorities: public safety, neighborhoods, customer service, financial stability, economic growth and civic engagement. Department initiatives have been established based on these goals.

The following Department initiatives in the Proposed Budget have been established, in addition to those in the City Budget, based on the six priorities including:

STRONG AND SUSTAINABLE ECONOMIC AND FINANCIAL HEALTH

- Maintain sufficient reserve funds to cover one year's operating expenses
- Maintain a Debt Service Coverage Ratio of 1.2 or greater
- Complete a Cost of Service Study for year ending June 30, 2017
- Fund capital expenses related to road projects from reserve funds
- Fund \$2.0 million target annually for sewer rehabilitation
- Fund stormwater capital projects with "banked" working capital reserves, incurring no debt

EXCELLENT SERVICES WITH A FOCUS ON CUSTOMER SERVICE

- Remodel customer service offices to better serve the public and create a more secure environment for customer service personnel
- Monitor and report customer account ratios- customer service costs per account
- Monitor and report billing accuracy
- Implement interactive voice response (IVR) for customers for payment by phone.
- Participate with the City to centralize the maintenance, operation, acquisition and planning for computers, GIS, technology, radio communications, mobile data and office equipment through coordination with the City's Information Technology (IT) Department.
- The City has developed an information technology master plan that will create a roadmap for the acquisition of computer hardware and software. The Department's next endeavor is the procurement and acquisition of a Computerized Maintenance Management System (CMMS) to proactively manage our horizontal assets (i.e., water distribution and wastewater collection systems).
- Participate in the City initiative for "Service Excellence".
- Accept electronic digital development construction plans for review and comment.

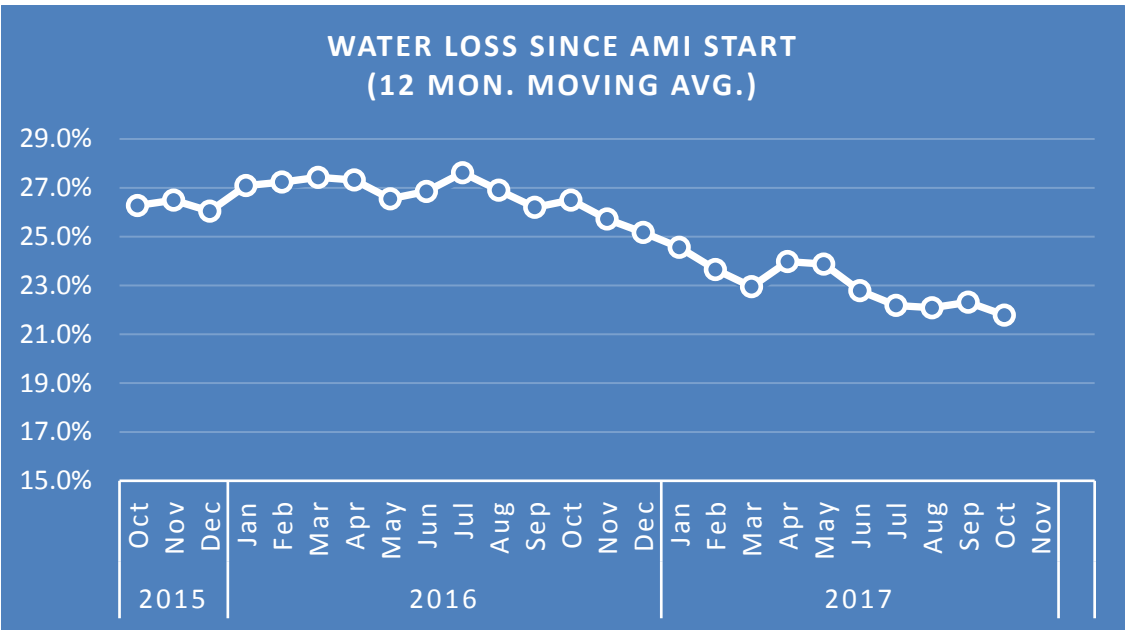
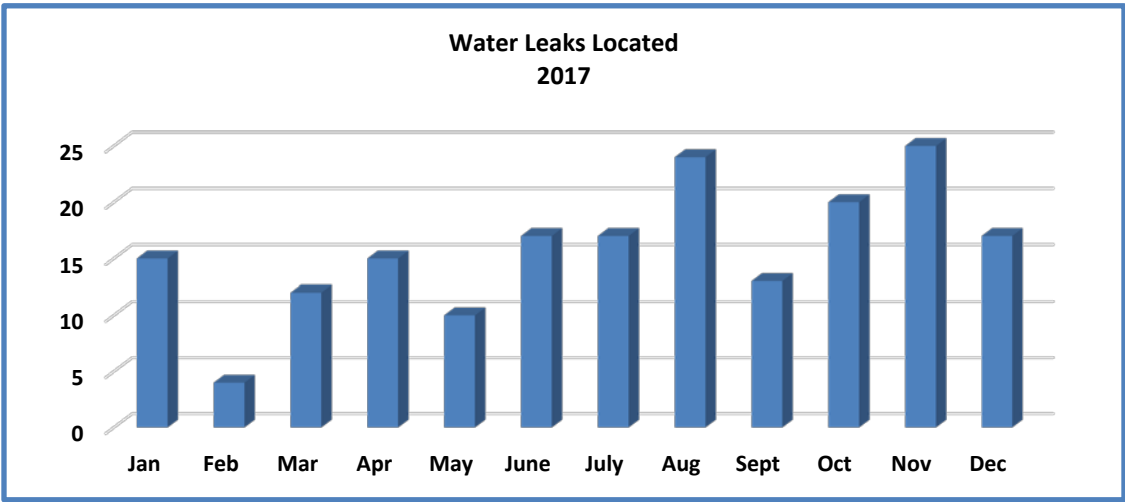
ENGAGING OUR COMMUNITY

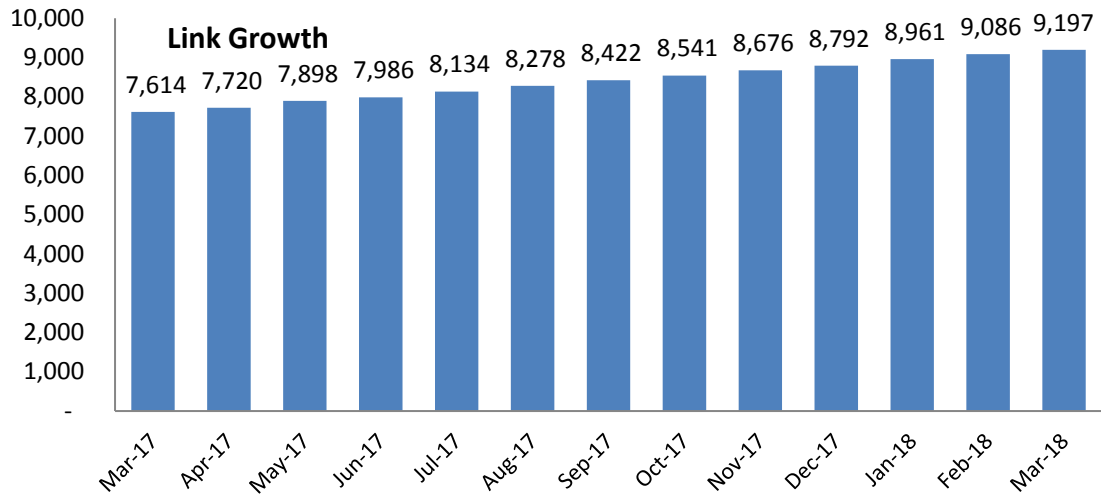
- Develop outbound voice and email messaging to customers, notifying them of issues associated with their account (i.e., potential leak), and upcoming initiatives involving the Water Resources Department. The Department issues about 400 early leak notifications per month.
- Provide a web-based portal for customer on-line account payment and electronic bill review and billing history.
- Participate in the City's Facebook presence, Police and Fire academies, CityTV and other tools to reach out to our residents

- Provide a web-based portal for customers to view their water consumption history in near real time; actively allowing them to participate in water budgeting. This portal is being provided through the Advanced Metering Infrastructure implementation.
- Conduct stakeholder meetings on critical issues.
- Participate in the City's initiative in implementing an electronic agenda system for City Council that will significantly decrease staff preparation of the council meeting packets as well as making the complete packet available to our residents via the website
- Continue co-permitting relationship with MTSU on NPDES MS4 Phase II stormwater permit

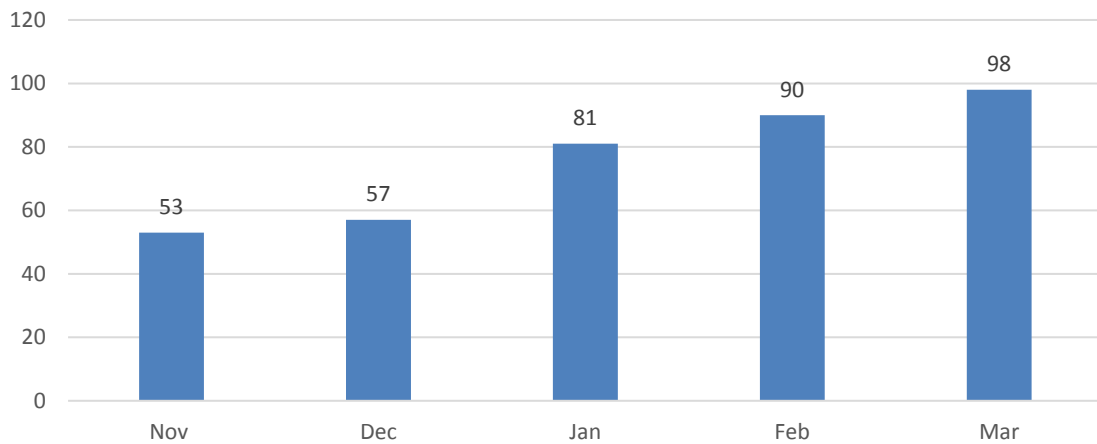
FY 2018 DEPARTMENT ACCOMPLISHMENTS

- Implemented "Help 2 Others" (H2O) program in conjunction with Community Helpers of Rutherford County that provides a venue to allow customers to pay additional monies above their water and sewer bill to provide a need based resource to help and/or supplement low income customers' ability to pay monthly water and sewer bills.
- Completed the improvements associated with the Water Resource Recovery Facility (WRRF) upgrade, including a new ultraviolet (UV) disinfection system that is anticipated to save energy in December 2017.
- Conducted on-going studies to assess the assimilative capacity of the East and West Fork Stones Rivers.
- Completed a lime-pasteurization pilot study to manufacture class A biosolids. Sought input and guidance from agricultural land owners as to acceptability of product as a soil amendment to their farming operations.
- Replaced DeJarnette Lane Pump Station #13.
- Initiated a Waste Load Allocation model to integrate into a site-specific rationale for TDEC review as a prototype for the City's upcoming 2021 NPDES permit.
- Continued to make a presence at public outreach events such as Earth Day, partner with MTSU when the opportunity presents itself, and educate public on water cycle, stormwater best practices and recycling of water for the "right use".
- Took bids to enhance security in the Customer Service Area through renovation and remodeling efforts.
- Continued Partnering with Key Stakeholders, such as the U.S. Army Corps of Engineers, Tennessee Department of Environment and Conservation, the Rutherford County Chamber of Commerce, General Mills / Pillsbury, Rutherford County, Middle TN State University, Consolidated Utility District, and the development community.
- Continued to reduce unaccounted for water through more accurate meter reading and utilization of Acoustic Leak Detection system. 191 Leaks located; 133 repaired. 104 million gallons saved per year; saving approximately \$105,000 annually

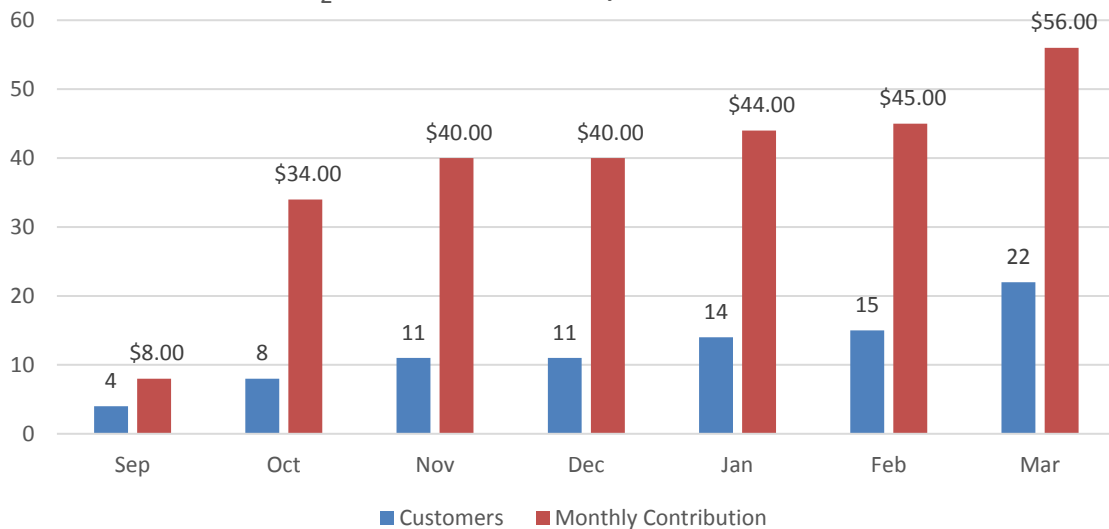




AMI Customer Portal Users



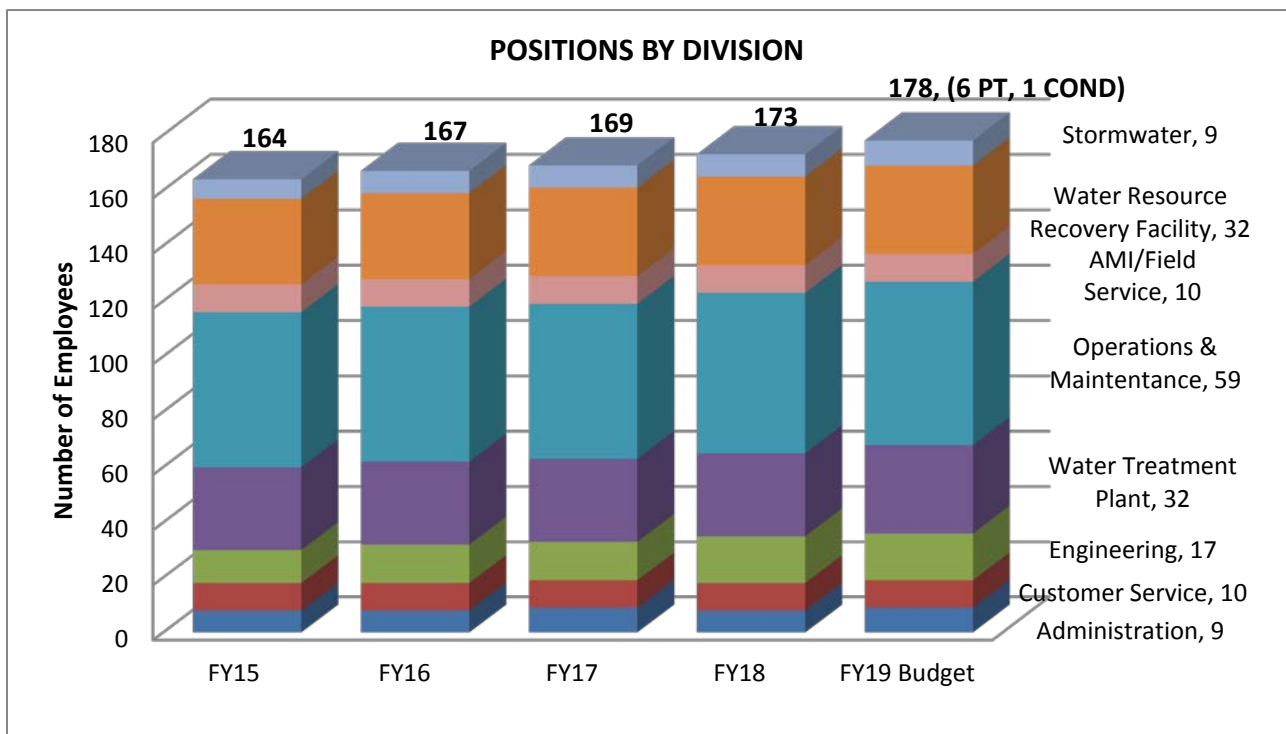
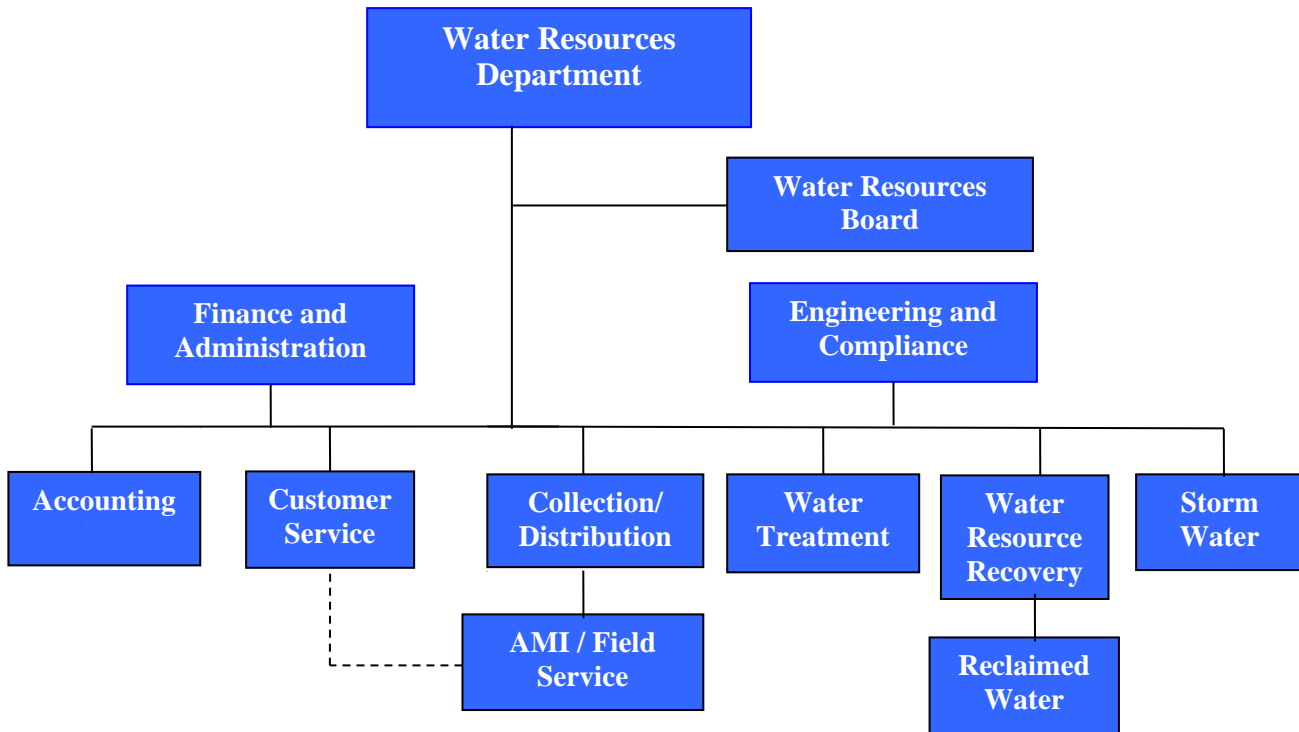
H₂O Users & Monthly Contributions



FY 2019 DEPARTMENT GOALS

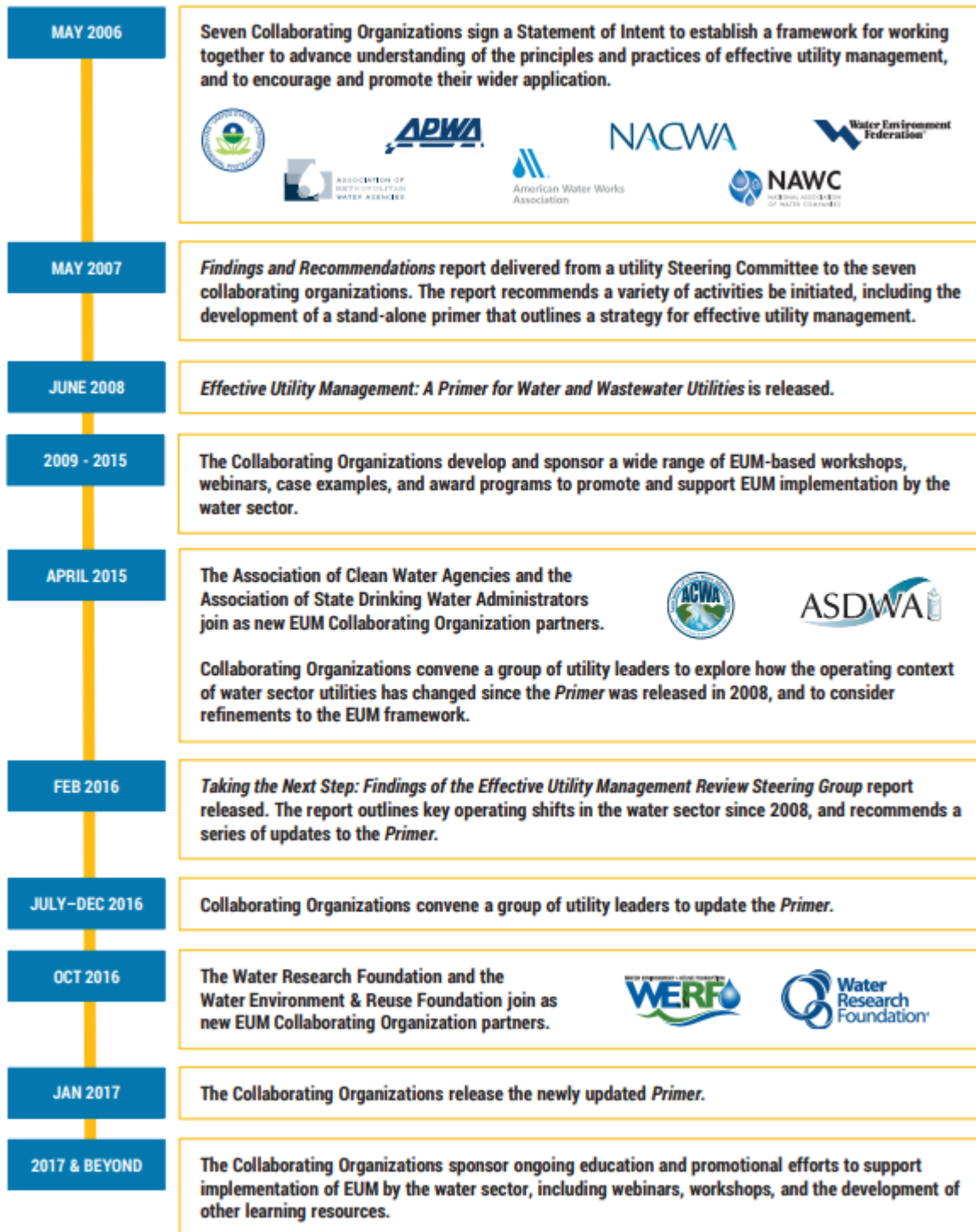
- Complete MWRD's Water Resource Integration Plan (WRIP); the goals of which are:
 - Look holistically at the management of water (drinking water, wastewater, repurified water, and stormwater) within the potential service areas of the Murfreesboro Water & Sewer Department.
 - Coordinate efforts with the City's Comprehensive Plan, so that the overall goal of facilitating the growth of the City of Murfreesboro will be accomplished in an orderly fashion with consideration of affordable and sustainable water management.
 - Coordinate water management strategies with the Consolidated Utility District to identify challenges and strategies to providing water services within the Urban Growth Boundary.
 - Coordinate with other studies currently underway assessing the assimilative capacity of the East and West Fork Stones Rivers.
- Set alignment of Northeast Regional force main and complete Northeast Regional pump station hydraulics. Begin property acquisition – appraisals and potentially pull together preliminary offers for easement acquisition.
- Procure and install small-scale demonstration biosolids dryer at Water Resource Recovery Facility and begin manufacturing class A-EQ biosolids for distribution.
- Seek partnerships with agricultural and industrial operations to increase the disposal rate of effluent and biosolids for land application generated at the Sinking Creek plant.
- Complete replacement of the Ransom Drive pumping station.
- Complete the Waste Load Allocation model to integrate into a site-specific rationale for TDEC review as a prototype for the City's upcoming 2021 NPDES permit.
- Continue to make a presence at public outreach events such as Earth Day, partner with MTSU when the opportunity presents itself, and educate public on water cycle, stormwater best practices and recycling of water for the "right use".
- Continue developing predictive benchmarking and performance measurement criteria that advance MWRD into a performance driven utility. MWRD expects to launch Power BI (Business Intelligence) that will allow for leveraging CIS, utility billing and financial data to be utilized in a "living" dashboard.
- Complete enhancing security in the Customer Service Area through renovation and remodeling efforts.
- Develop development "tool kits" such as grease interceptor requirements for food service establishments discharging fats, oils and grease (FOG), and industrial discharge criteria for interested industries looking to Murfreesboro as a potential building site.
- Seek to simplify the development process for small business owners and integrate into a "one stop shop" culture.
- Begin development of a Meter Change Out Program or establish sinking fund for total system meter change-out in the future.

ORGANIZATIONAL STRUCTURE



EFFECTIVE UTILITY MANAGEMENT

A Brief History of Effective Utility Management



The Murfreesboro Water Resources Department's (MWRD) commitment to EUM has distinguished us as a leader among public utilities. Our commitment to continuous improvement encompasses all areas of service. As a supplier of products and services that are vital to life and foundational to our quality of life, we recognize and embrace our responsibility and role in sustaining our community and its environment; and take seriously the public trust we must maintain.

Our Goals

The ten attributes of Effective Utility Management (EUM) represent the explicit goals of MWRD and therein define the specific areas of focus in which we plan and execute. Every initiative, every action, every decision, and every dollar expended is explicitly targeted at achieving one or more of our goals for the express benefit of our community. The EUM attributes, Our Goals, are:

- Product Quality (PQ)
- Customer Satisfaction (CS)
- Employee and Leadership Development (ELD)
- Operational Optimization (OO)
- Financial Viability (FV)
- Enterprise Resiliency (ER)
- Infrastructure Strategy and Performance (ISP)
- Community Sustainability (CSU)
- Water Resource Sustainability (WRS)
- Stakeholder Understanding and Support (SUS)

Our Keys to Success

Our success hinges upon leadership at every level; and as leaders looking forward, our consistent willingness to operate as a team organization. Our progress in pursuit of our goals will be measurable so that we stay on the right track and adjustments can be made if necessary. The keys to success are:

- Leadership
- Strategic Planning
- Organizational Approaches
- Measurement
- Continual Improvement

MWRD'S STRATEGIC VISION

- ***Promoting Sustainability of Resources***

The biological processes we employ at the Water Resource Recovery Facility and raw water from J. Percy Priest Reservoir are sustainable because they are "renewable". These great resources create the means to have a water and sewer utility. However, human resources are required for a utility to be of service to us. People make it happen.

- *Beneficially Managing Effluent* – Murfreesboro relies on the West Fork Stones River (WFSR) as its primary effluent disposal avenue. Through ongoing biological assessments of the river over the past four years, results are dramatically proving that "the WFSR relies upon our

WRRF effluent for its vibrant biological health and even more notably its very existence in many months of the year”.

- *The Water Resources Integration Plan (WRIP)* – the WRIP will be completed in 2018. The document chronicles our history and projects our future with a strong focus on the necessary collaboration with our local stakeholders CUD, Smyrna, and USCOE. The success of our continued growth, socioeconomic welfare, and sustainability largely depends on the availability of water and sewer services within the Urban Growth Boundary (UGB) and our collaborative participation with these stakeholders.
- *Resource Recovery* – the MWRRF produces an effluent of exceptional quality which protects, sustains, and enhances the West Fork Stones River (WFSR). Furthermore, with the pending closure of the Middle Point Landfill, there is now a business case to justify the implementation of solids recovery to produce Class A EQ biosolids which are suitable for agricultural use as a soil amendment.
- *Human Resource Recruitment and Retention* – our important EUM goal of fostering Employee Leadership and Development has in recent years encountered an emerging challenge. Perhaps because of the improvement in the overall economy and/or the elimination of the defined benefit pension for City employees; and in conjunction with other changes to our own Class and Compensation policies, we are experiencing a problematic impact on our most precious and significant resource, our operational staff. In 2018, MWRD is prepared to engage with City management, City Council, and other department directors in a strategic evaluation of this issue. The Department’s culture is focused on delivery of services to its residents through the best workforce it can recruit and train.

- ***Promoting Efficiency in Systems and Practices***

- *Maximizing AMI and Leak Detection Benefits* – our EUM Goal of Infrastructure Strategy and Performance (ISP) includes a strong focus on our efficiency in delivering water to our customers. AMI and system-wide leak sensors are new tools to monitor the integrity and performance of our distribution network. Our AMI staff is actively engaged in maximizing the potential benefits it affords us.
- *Regaining Wastewater Collection/Treatment Capacity via I/I Removal* – our capacity to efficiently collect and treat wastewater is vital to public health, necessary for environmental protection, and directly proportional to our capacity to serve a rapidly growing service population. Gravity sewer systems are highly vulnerable to infiltration/inflow from rainfall events and groundwater.
- *Managing Sewer System Growth*
 - The sewer service population growth rate set a new high in 2017, confirming projections.
 - Major collection system expansion projects continue as the new Northeast Regional Pump Station and force main is now on the drawing board. This new station will relieve capacity on the Sinking Creek Interceptor and provide capacity for new growth to the east and northeast.
 - In 2017, three new developments in the CUD water service area have applied for annexation and will be served by MWRD-maintained STEP systems.

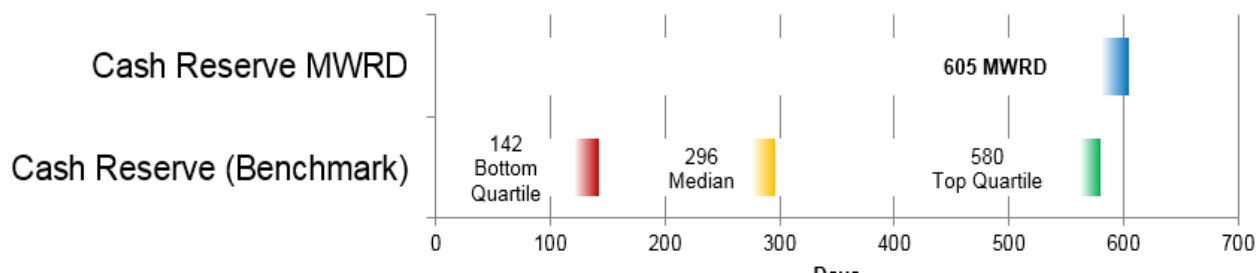
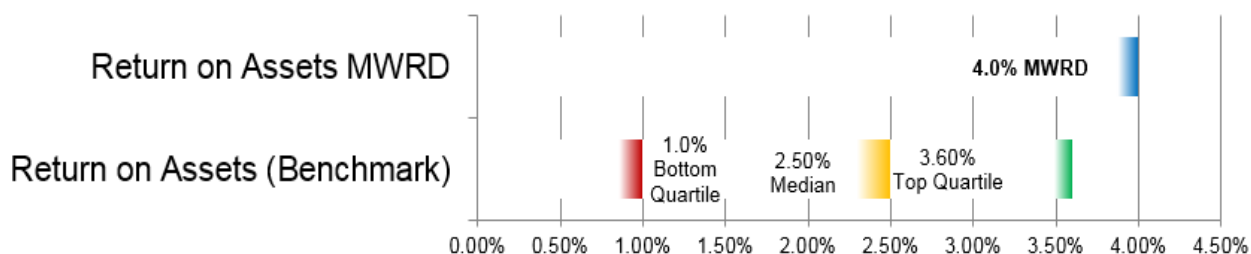
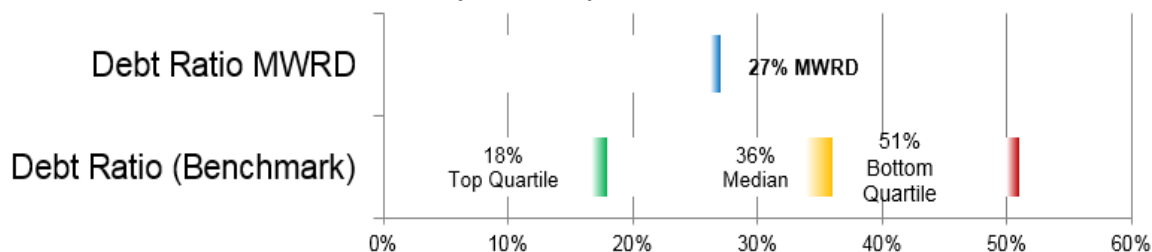
- Our newly named Wastewater Resource Recovery Facility has been expanded (completed in Nov 2017) with a design capacity of 24 MGD
- *Maximizing Business Intelligence* – over the past 4 years, MWRD has endeavored to enhance overall operational efficiency and customer service through the implementation of multiple Information Technology (IT) improvements. MWRD is committed to continually improve to afford our technicians, operators, field and customer service reps, engineering and administrative staff the ability to efficiently and effectively mine, analyze and deliver data to support operations and our customer needs.

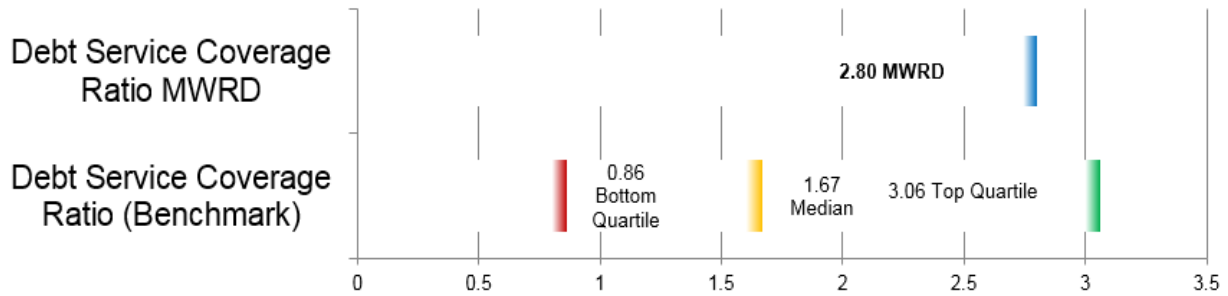
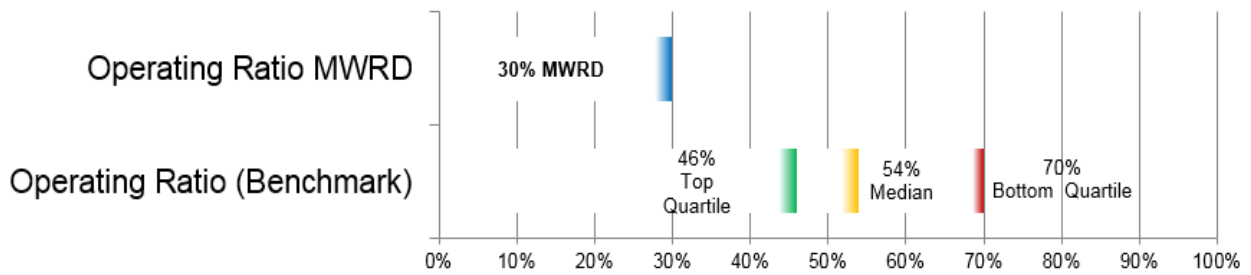
BENCHMARKING

MWRD participated in the 2016 American Water Works Association Utility Benchmarking program and received the results in August of 2017. 129 Utilities (124 in 2014, 163 in 2015) participated in the benchmarking survey with 80 Combined Water and Wastewater Services (80 in 2014, 98 in 2015), 35 States Represented, 4 from Tennessee (including Metro Nashville, Johnson City, Oak Ridge and Murfreesboro)

FINANCIAL VIABILITY

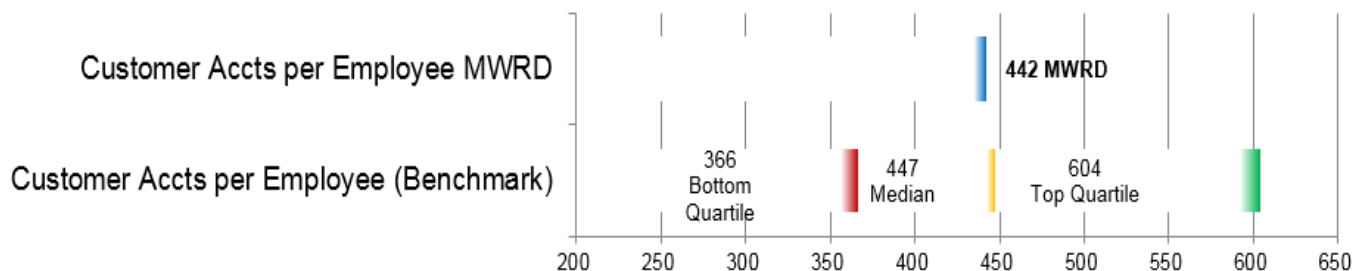
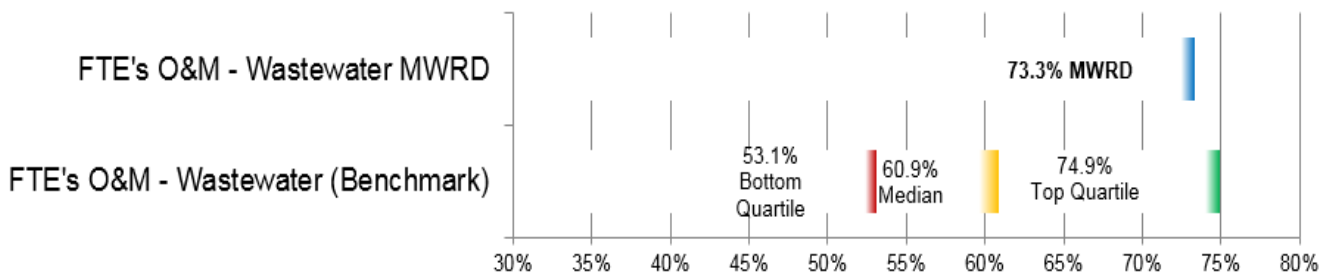
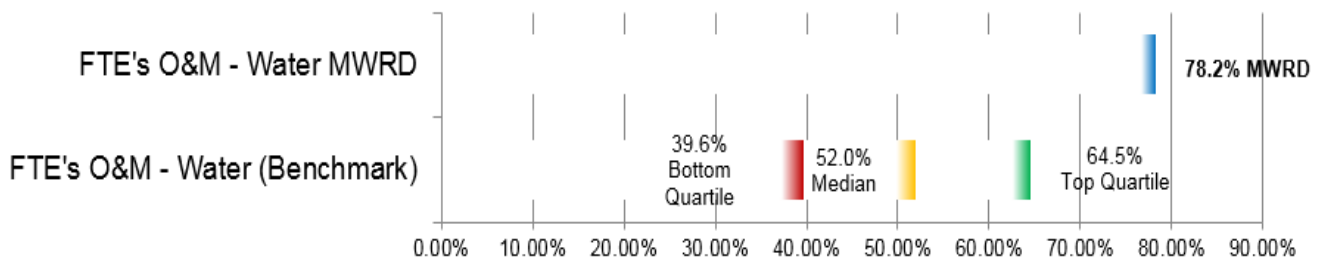
MWRD Scored in or near TOP Quartile in every financial parameter



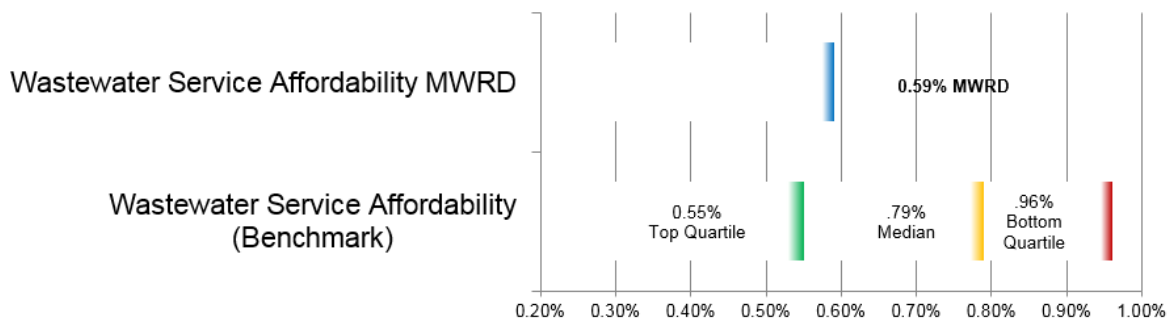
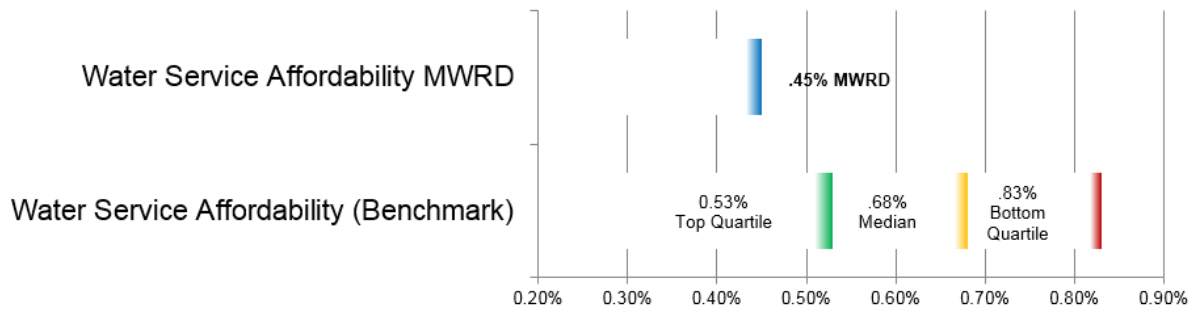
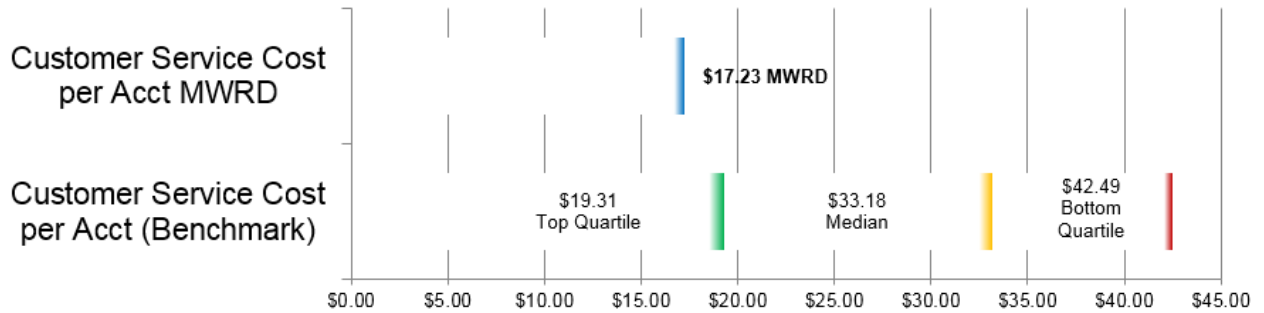


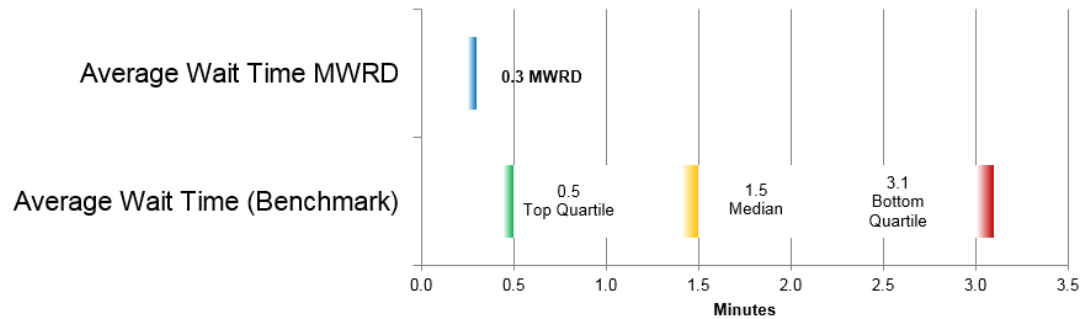
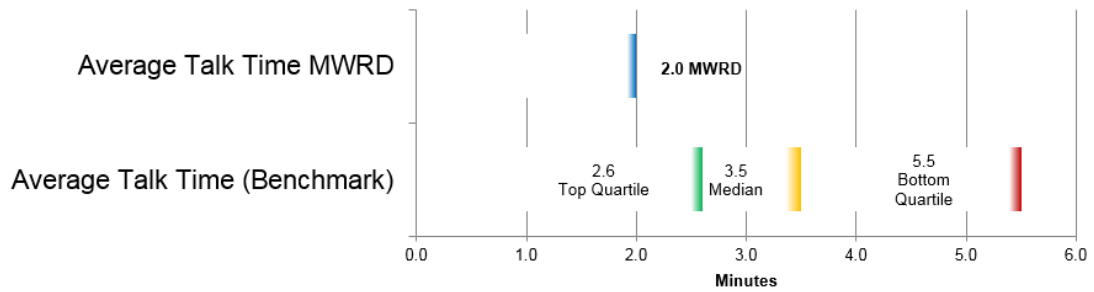
STAFFING LEVELS

MWRD has a Higher O&M staff percentage and Lower Admin percentage than survey respondents

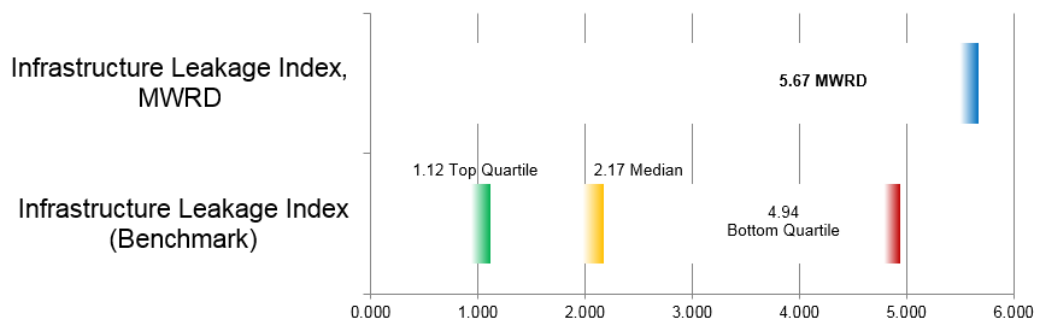
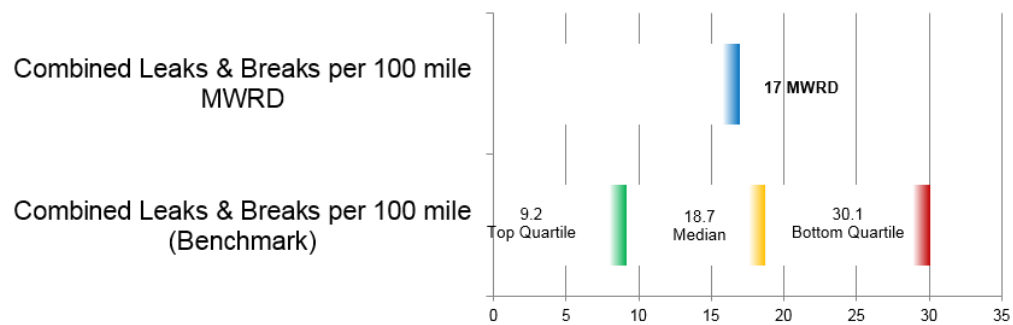


CUSTOMER SATISFACTION



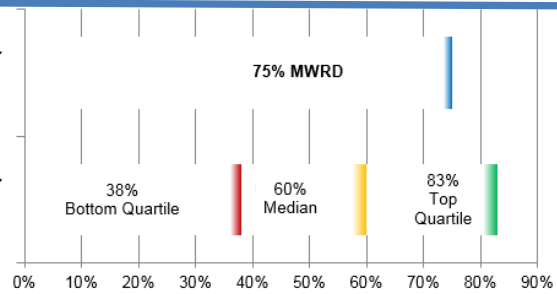


INFRASTRUCTURE STABILITY



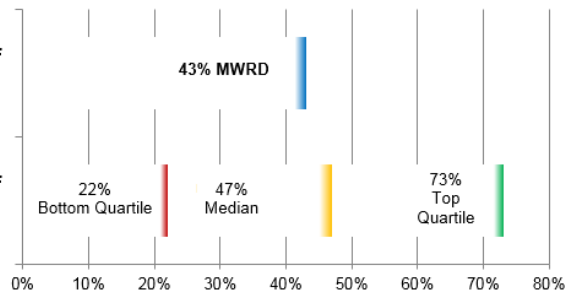
Planned Maintenance Ratio Wastewater
(% of Total), MWRD

Planned Maintenance Ratio Wastewater
(% of Total), Benchmark



Planned Maintenance Ratio Water (% of
Total), MWRD

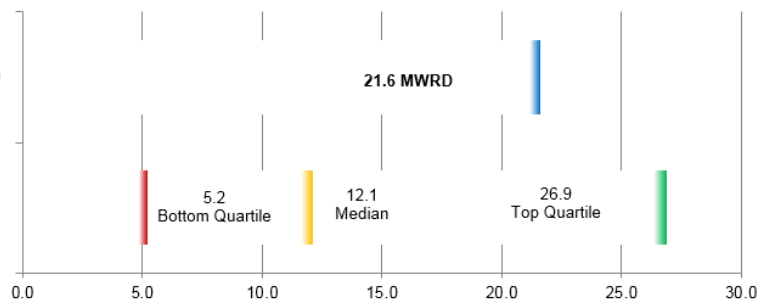
Planned Maintenance Ratio Water (% of
Total), Benchmark



EMPLOYEE AND LEADERSHIP DEVELOPMENT

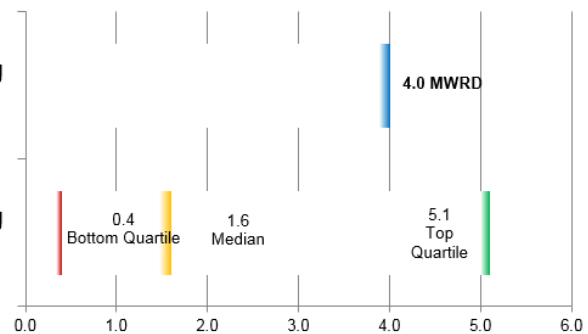
Training (hr/empl/yr), MWRD

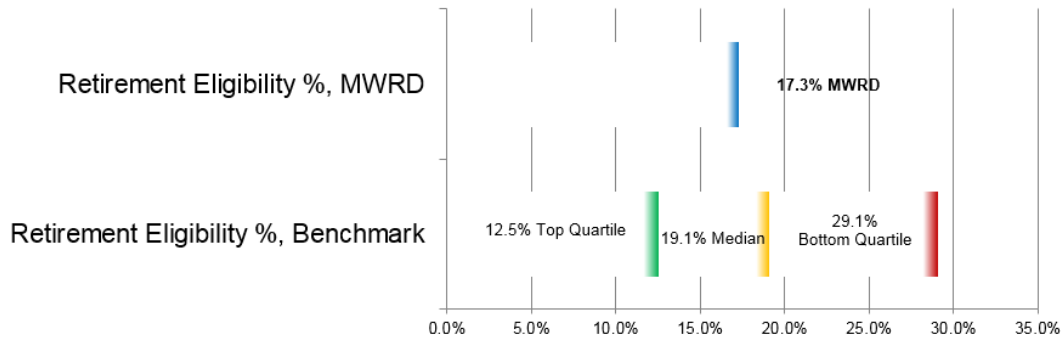
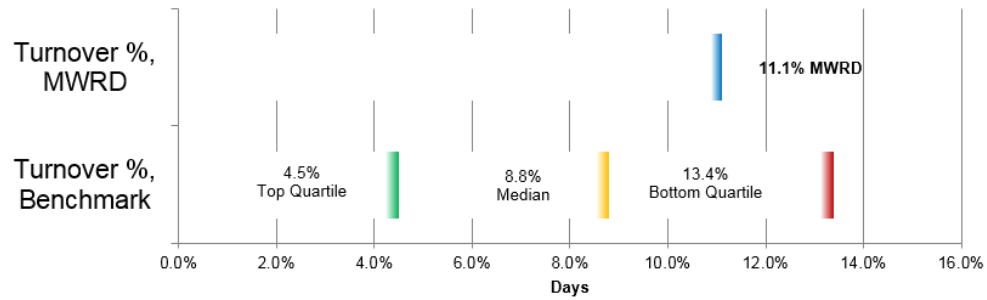
Training (hr/empl/yr),
Benchmark



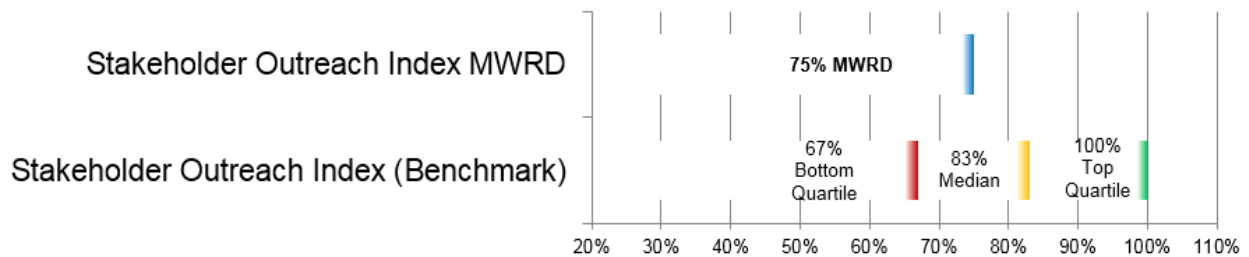
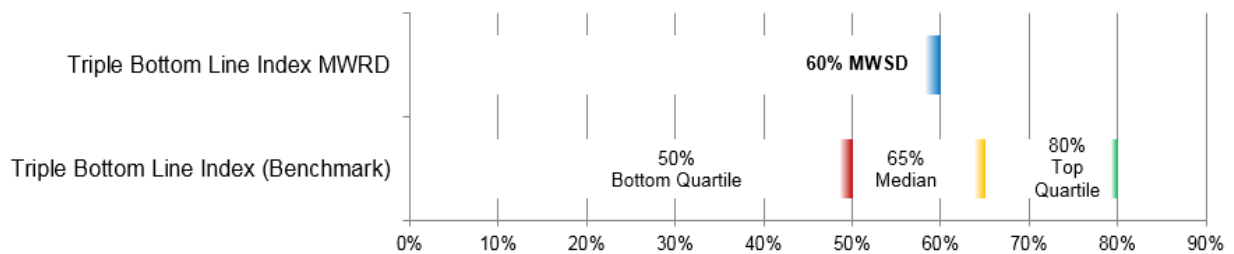
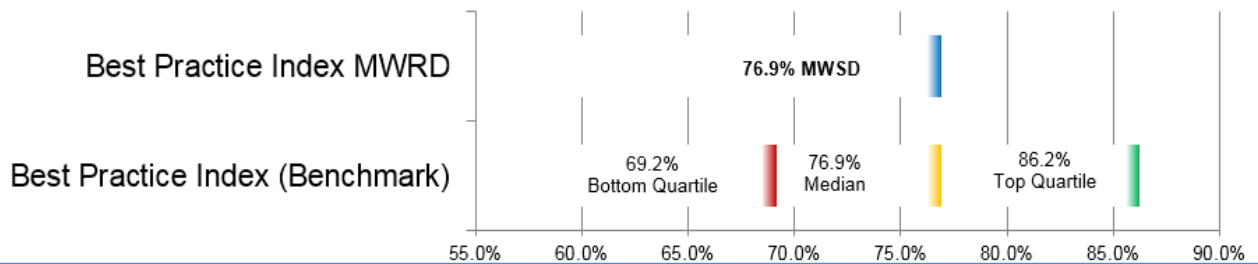
Emergency Response Readiness Training
(hr/empl/yr), MWRD

Emergency Response Readiness Training
(hr/empl/yr), Benchmark





COMMUNITY SUSTAINABILITY



WATER RESOURCES BUDGET SUMMARY

REVENUES	FY18				
	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	PROJECTION	FY19 BUDGET
WATER, OPERATING REVENUE	\$ 15,364,876	\$ 16,002,500	\$ 16,616,000	\$ 16,415,000	\$ 16,641,000
REPURIFIED, OPERATING REVENUE	\$ 28,723	\$ 27,400	\$ 29,000	\$ 29,000	\$ 29,000
SEWER, OPERATING REVENUE	\$ 26,262,131	\$ 27,243,200	\$ 27,144,000	\$ 27,854,000	\$ 28,328,000
OTHER INCOME AND EXPENSE	\$ 552,120	\$ 571,054	\$ 620,000	\$ 340,000	\$ 310,000
TOTAL OPERATING REVENUES	\$ 42,207,850	\$ 43,844,154	\$ 44,409,000	\$ 44,638,000	\$ 45,308,000
INTEREST INCOME OTHER INVEST.	\$ 39,996	\$ 45,000	\$ 55,000	\$ 70,000	\$ 70,000
TAP REVENUE	\$ 10,197,000	\$ 7,022,200	\$ 6,700,000	\$ 7,950,000	\$ 7,200,000
TOTAL REVENUES	\$ 52,444,846	\$ 50,911,354	\$ 51,164,000	\$ 52,658,000	\$ 52,578,000
EXPENSES					
WATER, OPERATING & MAINTENANCE	\$ 6,384,829	\$ 6,282,806	\$ 6,588,059	\$ 5,914,570	\$ 7,039,607
SEWER, OPERATING & MAINTENANCE	\$ 6,379,533	\$ 6,869,620	\$ 7,736,949	\$ 6,500,186	\$ 8,292,446
CUSTOMER BILLING & COLLECTION	\$ 1,690,264	\$ 1,840,209	\$ 2,099,088	\$ 1,873,550	\$ 2,191,899
ADM & GENERAL EXPENSES	\$ 5,512,324	\$ 4,522,154	\$ 5,007,023	\$ 4,589,738	\$ 4,827,790
TOTAL OPERATING EXPENDITURES	\$ 19,966,950	\$ 19,514,789	\$ 21,431,119	\$ 18,878,044	\$ 22,351,742
CAPITAL EXPENDITURES	\$ 3,645,500	\$ 2,347,428	\$ 5,928,620	\$ 4,489,320	\$ 6,206,340
DEBT SERVICE	\$ 10,916,921	\$ 12,115,878	\$ 13,398,513	\$ 13,167,885	\$ 13,925,717
TRANSFERS TO RESERVES	\$ 11,793,732	\$ 10,416,938	\$ 10,405,748	\$ 10,755,500	\$ 10,094,201
TOTAL EXPENDITURES/RESERVES	\$ 46,323,103	\$ 44,395,033	\$ 51,164,000	\$ 47,290,749	\$ 52,578,000
DEBT COVERAGE RATIO (DCR)					
OPERATING REVENUES	\$ 42,207,850	\$ 43,844,154	\$ 44,409,000	\$ 44,638,000	\$ 45,308,000
OPERATING EXPENSES	\$ 19,966,950	\$ 19,514,789	\$ 21,431,119	\$ 18,878,044	\$ 22,351,742
FUNDS AVAILABLE FOR DEBT COVERAGE	\$ 22,240,900	\$ 24,329,365	\$ 22,977,881	\$ 25,759,956	\$ 22,956,258
DEBT SERVICE	\$ 10,916,921	\$ 12,115,878	\$ 13,398,513	\$ 13,167,885	\$ 13,925,717
DCR (Goal = >1.2)	2.04	2.01	1.71	1.96	1.65

The following is a summary of the budget:

- The FY19 Budget reflects \$52,578,000 in total revenues. The proposed budget is \$1,414,00 more than the FY18 budget and \$(80,000) less than FY18 projections.
- FY19 Operating Revenues total \$45,308,000 an increase of \$670,000 over FY18 projections and \$899,000 increase over FY18 budget.
- No rate increase is proposed for FY19.
- The water rate is recommended to remain at \$3.66 per 1000 gallons. The sanitary sewer rate is recommended to remain at \$5.67 per 1000 gallons.
- Septic Tank Effluent Pump (STEP) rates are recommended to remain at \$2.00 per 1000 gallons.
- Water and sewer connection fees are set at \$1,200 and \$2,550, respectively. From February 2011 through February 2012, water and sewer connection fees were reduced to \$950 and \$1,500, respectively. Effective March 1, 2012 rates returned to their pre-reduction levels. No increase in connection fees are budgeted for FY18.

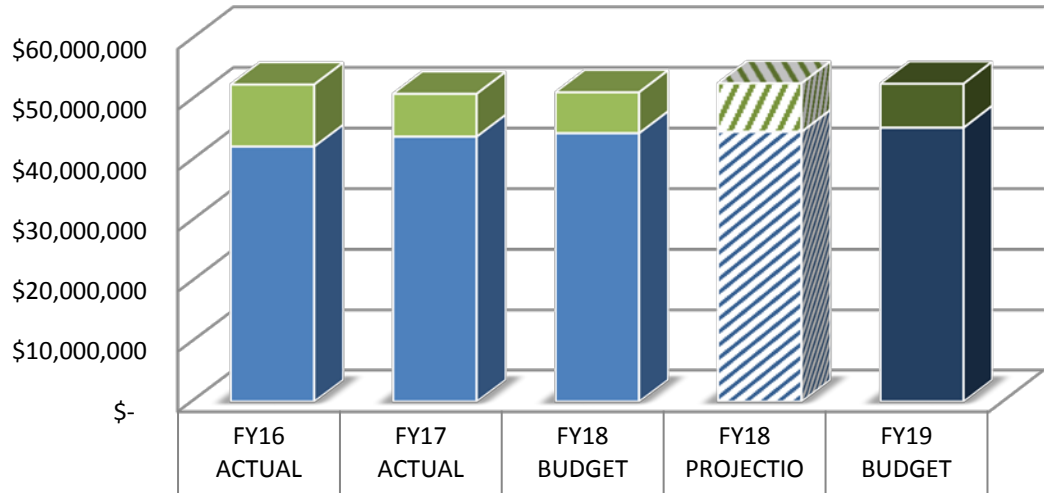
- Customer Service/Collection and Administrative/General expenses increased by \$92,811 (4.4%).
- Water Treatment Operating and Maintenance Expenses increased by \$451,548 (6.9%).
- Wastewater Treatment Operating and Maintenance Expense increased by \$555,497 (7.2%)
- Rate funded capital purchases total \$6,206,340, an increase of \$277,720 (4.7%) from FY18 budget.
- Debt Service Expenses total \$13,925,717, an increase of \$527,204 (3.9%) from FY18 budget. This debt has increased based on the payment derived from SRF loan 2016 and the Phase 4D Sinking Creek Plant Expansion.
- FY19 transfers to Reserves from connection fees and other sources have been budgeted at \$10,094,201, a decrease of (\$661,299) from FY18 projections. This includes \$2,375,000 in reserve income for sinking funds to pay cash for large upcoming capital expenditures and \$418,701 in reserves for future capital expense.
- Department and Stormwater fund \$154,000 to the City for legal services.
- There is a total of one hundred seventy-two (172) full time and six (6) part time positions budgeted. Included in the full-time positions are nine (9) positions in the stormwater department. There are five (5) new positions, three (3) promotions, one (1) full-time position requested as being split into two (2) part-time positions, and one (1) reclassification request. The total net increase anticipated in the personnel budget is \$313,345 representing a 2.9% increase.
 - Administration/Finance – One (1) new full-time position is requested for a Senior Accountant (CPA/CMFO). This position is intended for succession planning of the CFO position currently filled by Mr. Doug Swann.
 - Engineering – Two (2) new full-time positions are requested for the Engineering Division. One (1) full-time Water/Wastewater Project Inspector and one (1) Stormwater Project Inspector. These two positions are requested due to growth and maintaining a level of service for inspections as projects continue to be constructed in the Department's service areas. Projects are back to the level that supported five W/WW project inspectors in 2007, and stormwater projects are at a level that support two (3) stormwater inspectors.
 - Operations & Maintenance – O&M is requesting one (1) new full-time CCTV Technician position. This position is also a growth-related position to maintain levels of service in inspecting the sanitary sewer system.
 - Water Plant – the Cross Connection subdivision based at the water plant is requesting an additional Cross Connection Technician. This position is also growth related and is required to inspect and test all backflow prevention devices in commercial and industrial customers' facilities. Current levels of inspection support a fourth (4) Cross Connection Technician.
 - Three (3) internal promotions are requested due to duties commensurate with other job classifications.
 - Two (2) promotions from Equipment Operator to Heavy Equipment Operator at Operations and Maintenance division are requested.
 - One (1) promotion from Accounting Specialist to Accountant is requested in the Admin/Finance division.
 - The Water Resource Recovery Facility (WRRF) has one vacant operator position in the current FY18 personnel budget that it would request to split into two (2) part-time operator positions as part of the FY19 personnel budget. This would afford the WRRF at least two (2) operators per shift for safety purposes but not increase the payroll budget by having to hire two (2) full-time operators.
 - In last year's budget, staff requested an Engineer-in-Training (EIT) with the option of splitting that full-time position into two (2) engineering co-ops. This position was never filled. The request for an EIT was due to the lack of ability to recruit a Professional Engineer (PE) at the

proper annual salary. With the new classification/compensation study being developed internally to the City, staff would like to request approval in the FY19 budget to have the option of hiring a PE or EIT, depending on the market availability of either of these positions and the ability to attract a candidate based on the City's new compensation plan.

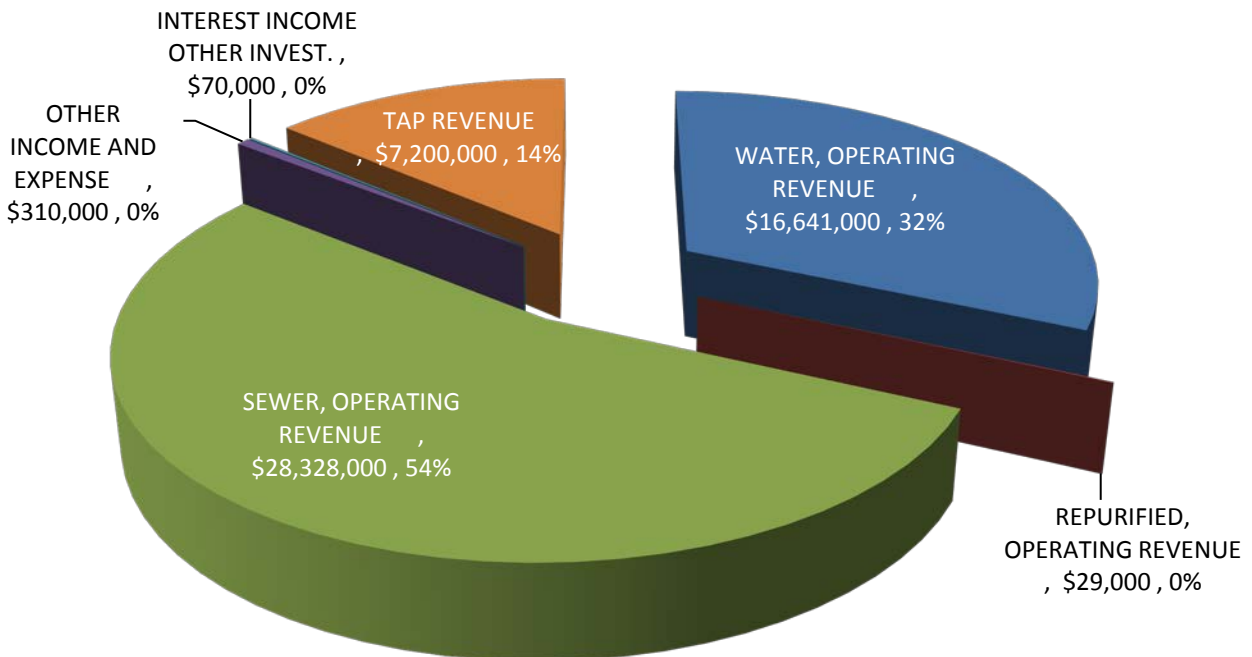
- The Department has had a vacant Engineering Support Specialist since November 2017. The primary function of that position is to review CCTV footage and recommend remediation techniques for repair, replacement and rehabilitation of the sewer system. As part of the FY19 personnel budget, staff would like to expand this position to a GIS mapping technician to cover the aforementioned duties plus incorporating this work into our GIS system. Our next large Information Technology enterprise endeavor is to begin implementing a Computerized Maintenance Management System (CMMS). The horizontal CMMS systems we are looking at will integrate with ArcGIS and create a more sophisticated process to determine consequence and likelihood of failure, which will prioritize MWSD's repair and rehab efforts in both the Department's sewer and water systems.

WATER RESOURCES REVENUE SUMMARY

Total Revenues, \$52,578,000



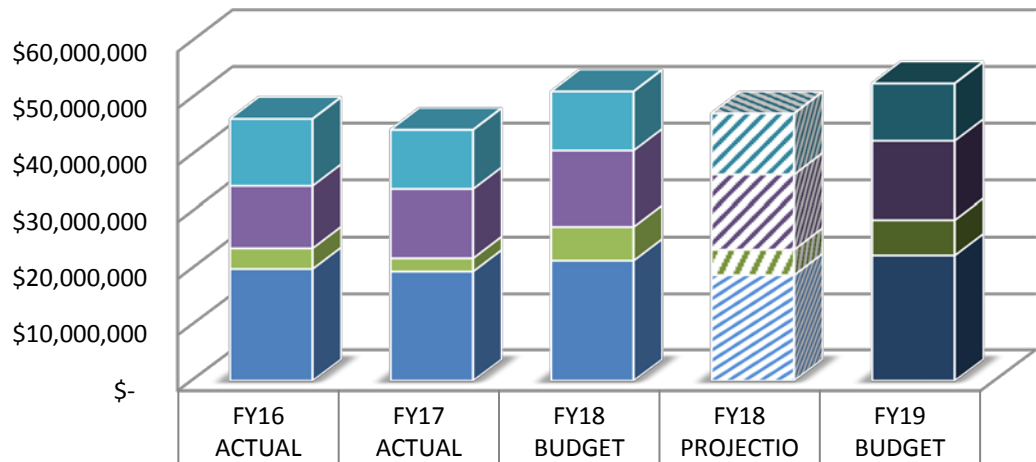
TAP REVENUE	\$10,197,000	\$7,022,200	\$6,700,000	\$7,950,000	\$7,200,000
INTEREST INCOME OTHER INVEST.	\$39,996	\$45,000	\$55,000	\$70,000	\$70,000
TOTAL OPERATING REVENUES	\$42,207,850	\$43,844,154	\$44,409,000	\$44,638,000	\$45,308,000



FY19 Total Revenues \$52.58M

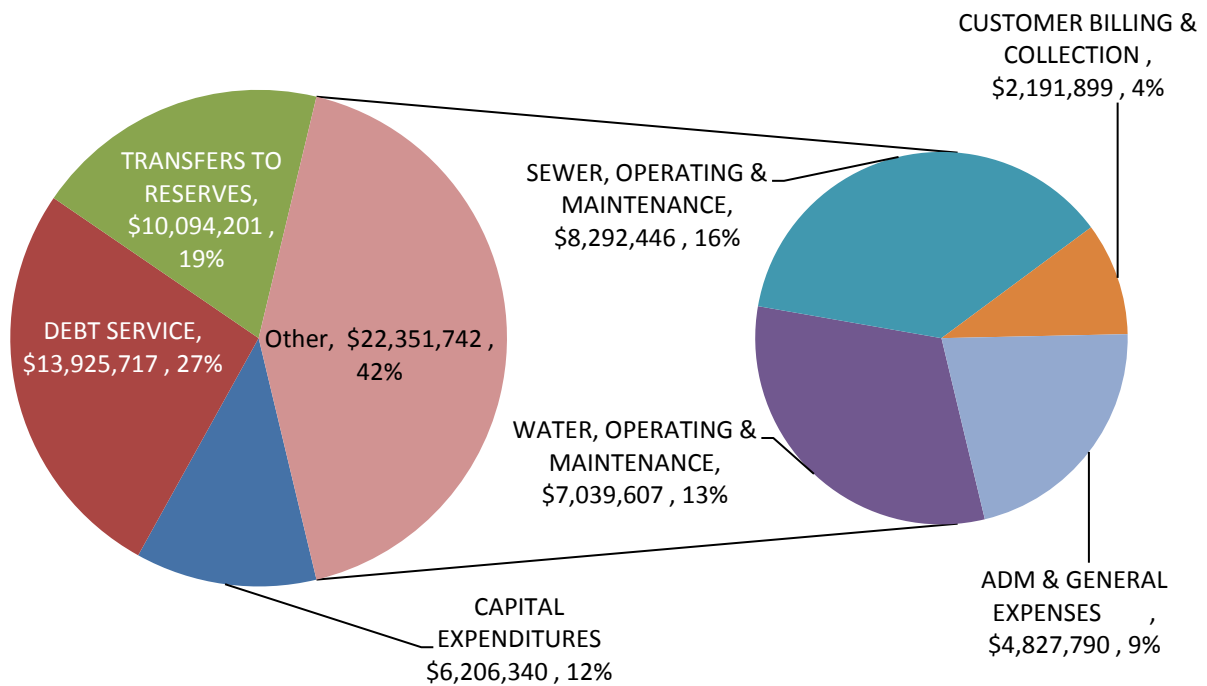
WATER RESOURCES EXPENSE SUMMARY

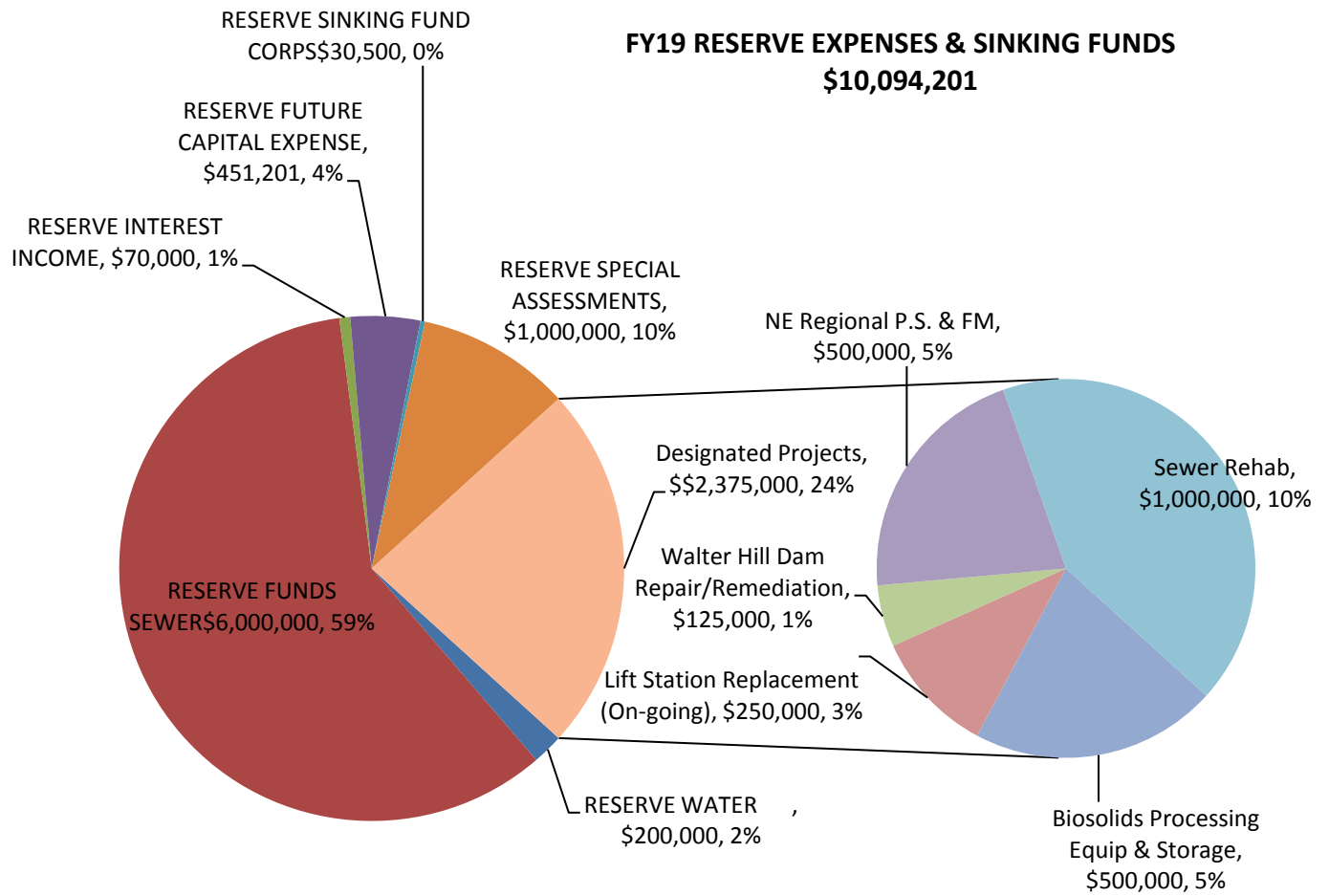
Total Expenses, \$52,578,000



■ TRANSFERS TO RESERVES	\$11,793,732	\$10,416,938	\$10,405,748	\$10,755,500	\$10,094,201
■ DEBT SERVICE	\$10,916,921	\$12,115,878	\$13,398,513	\$13,167,885	\$13,925,717
■ CAPITAL EXPENDITURES	\$3,645,500	\$2,347,428	\$5,928,620	\$4,489,320	\$6,206,340
■ TOTAL OPERATING EXPENDITURES	\$19,966,950	\$19,514,789	\$21,431,119	\$18,878,044	\$22,351,742

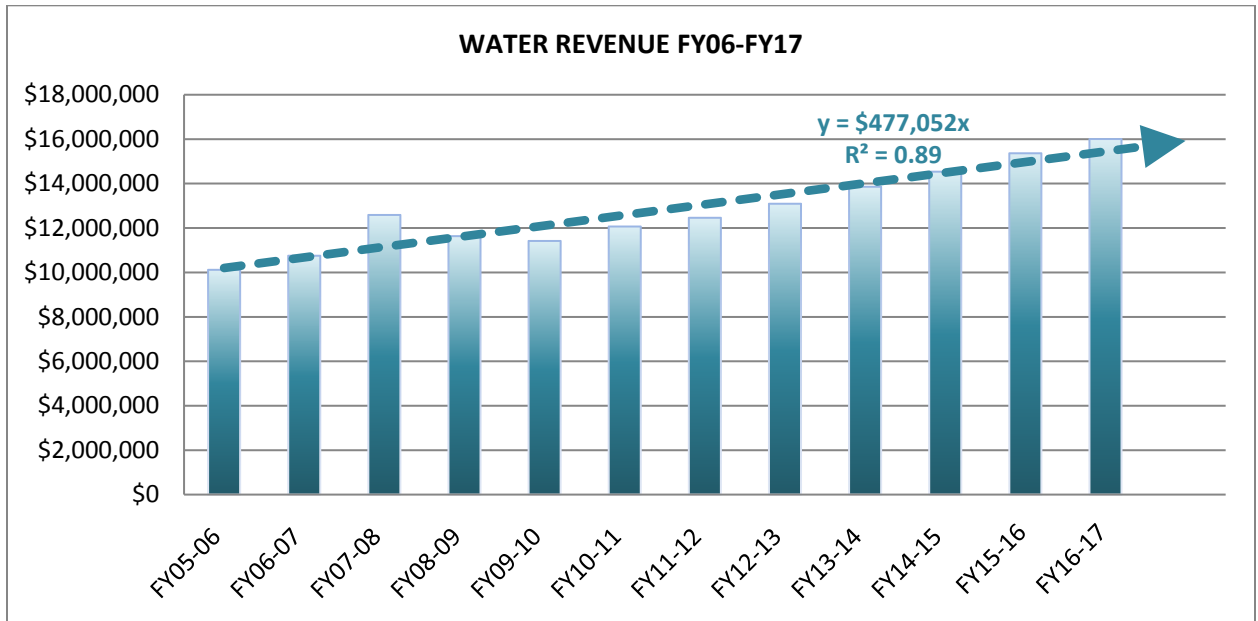
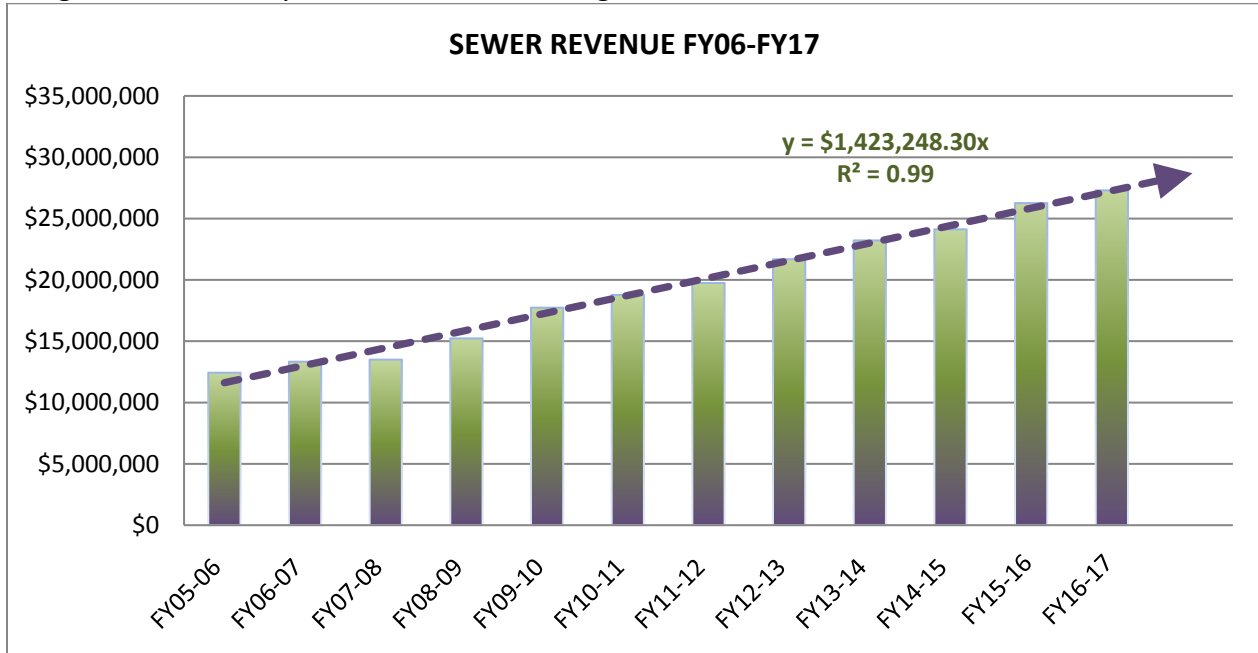
FY19 Total Expenses \$52.58M





REVENUE ITEMIZATION

Projected Department Revenue for FY19 totals \$52,578,000, which is \$1,414,000 more than the FY18 budget. This is mainly a result of the following water and sewer revenue trends:

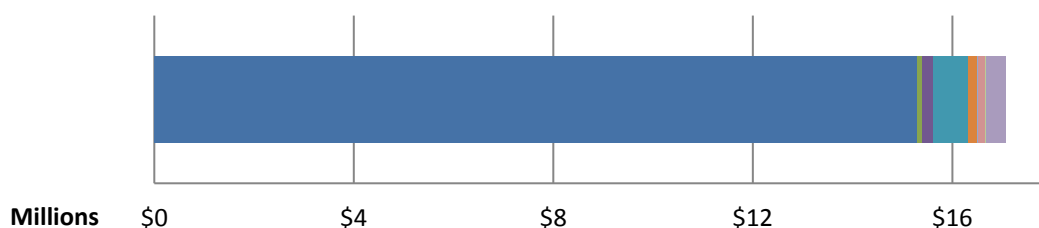


The revenue trends show that there is a high probability of an additional \$1.9M in water and sewer revenue. However, because there will be no rate increases, which staff believes to have accounted for around \$450,000, we have conservatively budgeted for a \$1.4M revenue increase. Staff has budgeted water revenue as “flat” based on FY18 projections and increased the tap revenue by \$500,000.

WATER REVENUE

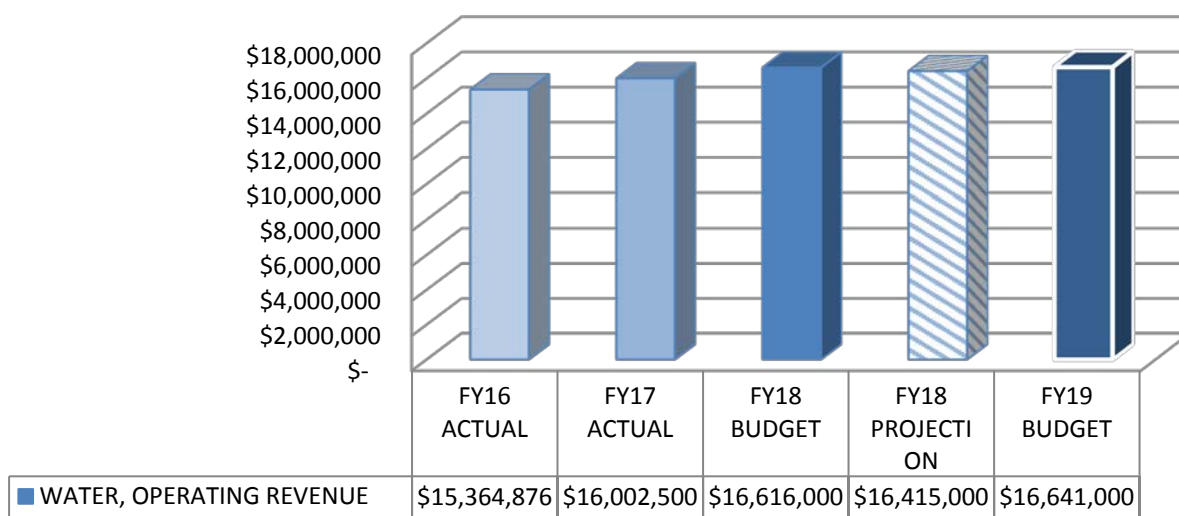
Water Revenue at year end FY18 is projected to be higher than budgeted. It is estimated to be approximately \$(201,000) under the FY18 budget. The FY19 revenue budget has only been increased by \$25,000 based on the projections.

FY19 Water Operating Revenue, \$17,041,000



	FY19 BUDGET
Metered Water Sales	15,300,000
Water Adjustments	(35,000)
Private Fire Protection	100,000
Service Initiation	215,000
Late Fees	700,000
Non-Payment	180,000
Returned Payment Fees	11,000
CCC	160,000
Enernoc	8,000
Water Tap Fees	400,000

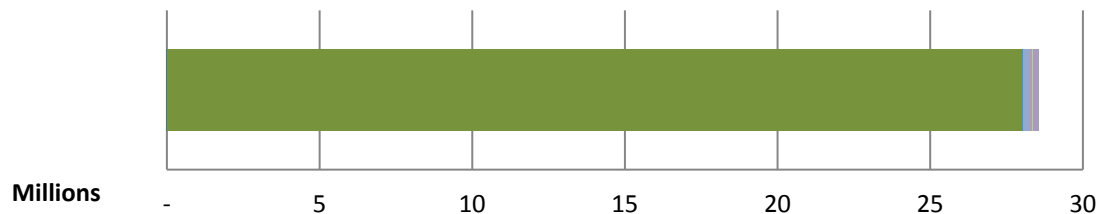
WATER, OPERATING REVENUE



SEWER REVENUE

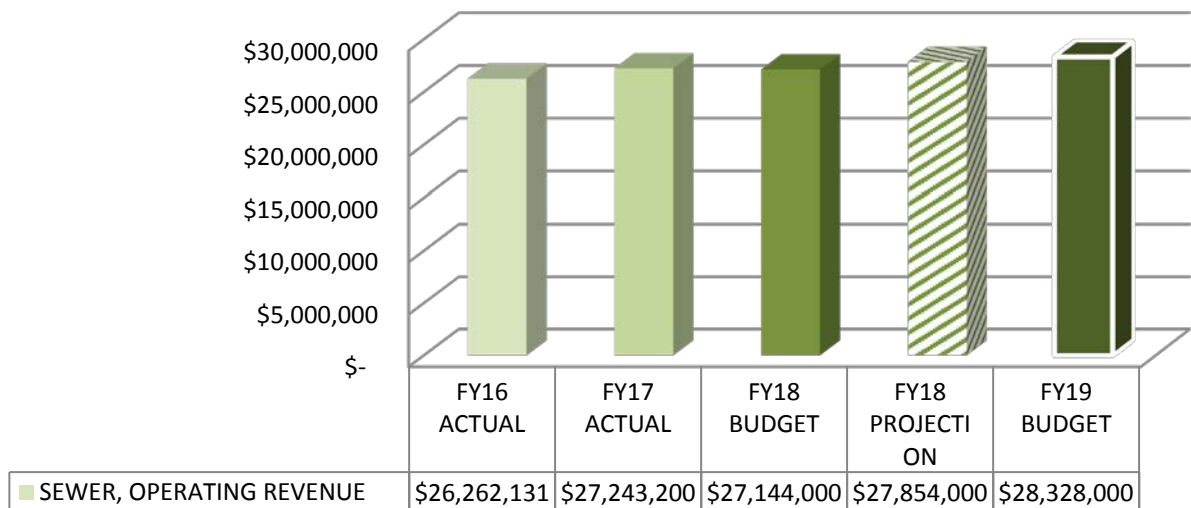
Sewer Revenue at year end FY18 is projected to be higher than budgeted. It is estimated to be approximately \$474,000 over FY18 budget. Growth results in staff budgeting \$1,184,000 higher revenue in FY19 versus the FY18 sewer revenue budget.

FY19 Sewer Operating Revenue, \$28,508,000



	FY19 BUDGET
■ Enernoc	6,000
■ Sewer Charges	28,000,000
■ Sewer Adjustment	(60,000)
■ Surveillance Fees	36,000
■ Sampler	18,000
■ BOD	250,000
■ Amonia	36,000
■ Septage Charges	42,000
■ Sewer Inspection Fees	180,000

SEWER, OPERATING REVENUE



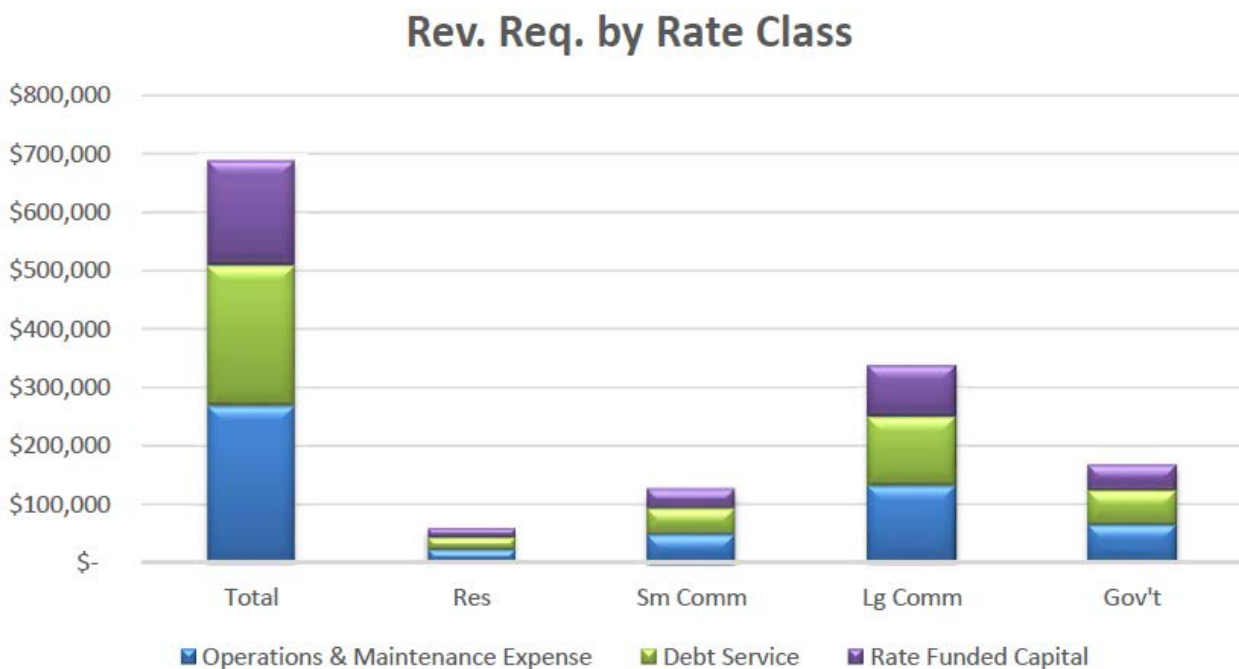
REPURIFIED WATER REVENUE

To reduce effluent discharge from the Sinking Creek Wastewater Treatment Plant, in 2006 MWRD began offering Repurified Water for irrigation purposes to portions of our service area. In addition to reducing necessary effluent discharge, repurified irrigation water also reduces the amount of water that the MWRD Water Treatment Plant must process and distribute. Rates for repurified water were set low (5¢ per hundred cubic feet) to encourage use by consumers. Consumption is budgeted to remain the same for FY19.

Revenue from Repurified water sales is small compared to water and sewer sales. A cost of service study was performed on the repurified system for FY17. The study showed that the Department is only currently recovering approximately 4% of its expenses in delivering this commodity. However, this commodity is unique in that it is only used during the summer months and is considered “waste” in the winter months. The Department is seeking solutions regarding recapturing the cost to serve this commodity to its customers. Disposal of repurified water via irrigation or land application does allow more capacity for the discharge of effluent to the West Fork Stones River, so there is a capacity (i.e., sustainability) benefit that is not calculated in the “hard” numbers associated with the FY17 COSS.

Rate Revenue for FY17	\$27,442
Cost of Service (Under-recovery)	\$(662,267)
 FY19 Budget Repurified Revenue	 \$29,000

The following graph shows the revenue requirements in total by rate class to fully recover 100% of the expenses associated with the repurified water system.

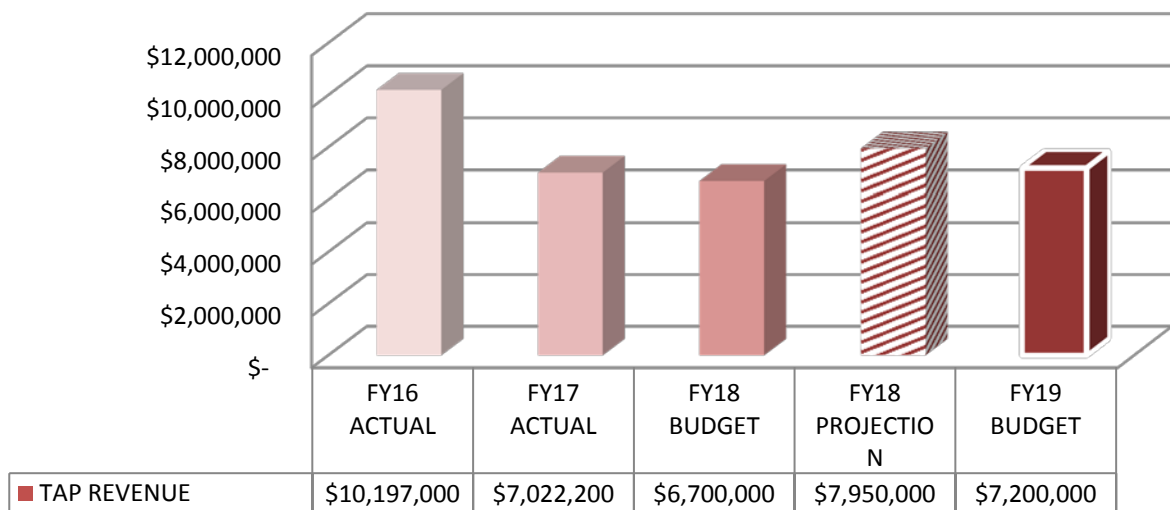


WATER TAPS / SEWER TAPS (SYSTEM DEVELOPMENT CHARGES)

FY19 water tap revenue is budgeted to be the same as the FY18 budgeted amount, or \$200,000. FY18 water tap fees are projected to be \$250,000. All excess tap fees beyond labor and material costs associated with tap installation are reserved for future capacity enhancement.

Sewer tap revenue is projected above the expected amount of activity anticipated in FY18. FY18 sewer tap fees are expected to be above budget by \$1,200,000. FY19 budgeted tap fees are \$500,000 above FY18 budget, or \$7,200,000. All excess tap fees beyond labor and material costs associated with tap installation are reserved for future capacity enhancement.

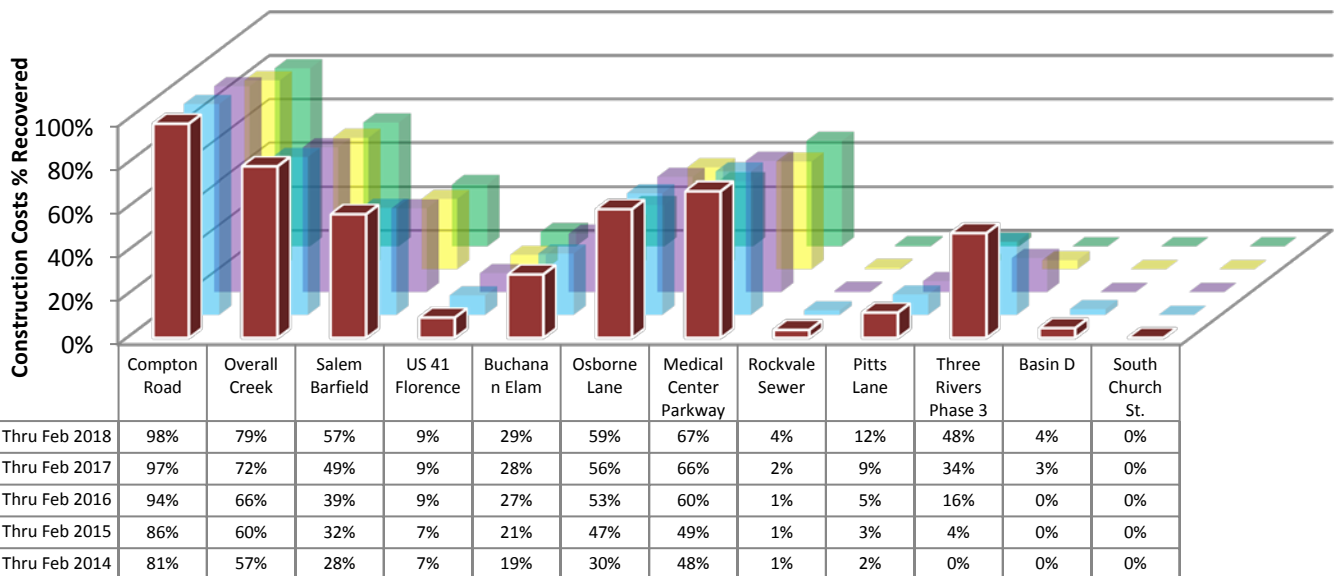
TAP REVENUE



SPECIAL SEWER ASSESSMENT FEES

Summary of Special Assessment Districts at February 28, 2018

Assessment Districts	Inception Date	Actual Construction Costs	Unit Amount	Assessment As of FEBRUARY 2018	Thru Feb 2018
Compton Road	1994	\$557,516.00	\$300.00	\$547,358.00	98%
Overall Creek	1999	\$18,218,700.00	\$1,000.00	\$14,318,403.00	79%
Salem Barfield	2001	\$2,920,664.00	\$750.00	\$1,661,677.50	57%
US 41 Florence	2001	\$2,851,514.00	\$5,800.00	\$264,190.00	9%
Buchanan Elam	2001	\$4,701,959.00	\$1,000.00	\$1,373,087.15	29%
Osborne Lane	2001	\$293,665.00	\$2,500.00	\$173,869.00	59%
Medical Center Parkway	2006	\$3,099,400.00	\$10,000.00	\$2,090,404.10	67%
Rockvale Sewer	2006	\$2,828,580.00	\$1,550.00	\$101,246.00	4%
Pitts Lane	2008	\$324,400.00	\$2,350.00	\$37,600.00	12%
Three Rivers Phase 3	2014	\$240,807.00	\$900.00	\$116,100.00	48%
Basin D	2007	\$1,448,846.00	\$925.00	\$64,565.00	4%
South Church St.	2016	\$297,274.00	\$10,600.00	\$0.00	0%
Total		\$37,783,325.00		\$20,748,499.75	55%



FY19 PROPOSED RATE SCHEDULE

Based on the FY17 Cost of Service Study (COSS) and FY22 Pro Forma developed by Jackson Thornton Financial Consultants, the following chart identifies the revenue surplus projected for the water and sewer enterprise funds as it relates to the over-recovery that was experienced in FY17.

Based on the findings of the FY17 Cost of Service and the Department's 10-yr projection of expenses, Jackson Thornton developed an FY2022 pro forma using two scenarios:

- 1) A "Base" scenario assuming no new debt was added between FY17 and FY22. This assumes using reserves on hand to pay for \$35,000,000 in capital projects.
- 2) A scenario where \$35,000,000 in debt (20-yr @ 2%) is incurred to pay for the Northeast Regional Pumping Station and Force main as well as the necessary capital equipment to perform full scale biosolids drying at the Water Resource Recovery Facility (WRRF). Full payback of the total loan amount was assumed to start in FY2022.

The table below compares the FY22 pro forma revenue requirements for the Water Resources fund to the FY17 actual rate revenue over-recovered. This scenario assumes no debt will be incurred within the five-year timeframe.

FY17 Rate Revenue compared to FY22 Pro Forma (No Debt Scenario)

	Water	# Annual Billings	Sewer	# Annual Billings	Total
FY22 Pro Forma	\$13,937,439	313,554	\$22,820,180	518,318	\$36,757,619
FY17 Rate Revenue	\$14,675,810	313,554	\$26,963,334	518,318	\$41,639,144
Difference	\$(738,371)	0	\$(4,143,154)	0	\$(4,881,525)

The total difference of \$(4,881,525) is the "revenue surplus" that the Department's anticipates over the five-year timeframe. The over-recovery of FY17 cost of service by \$2.8M covers the anticipated FY22 added expenses by approximately \$400k. Add the \$400k to a \$4.4M reduction in debt service equals the \$4.88M revenue surplus.

The table below compares the FY22 pro forma revenue requirements for the Water Resources fund to the FY17 actual rate revenue over-recovered. This scenario assumes \$35,000,000 will be incurred within the five-year timeframe to pay for the Northeast Regional Pumping Station and Force main and the capital equipment for full scale biosolids drying at the Water Resource Recovery Facility (WRRF).

FY17 Rate Revenue compared to FY22 Pro Forma (\$35M Debt Scenario)

	Water	# Annual Billings	Sewer	# Annual Billings	Total
FY22 Pro Forma	\$13,937,439	313,554	\$24,966,415	518,318	\$38,903,854
FY17 Rate Revenue	\$14,675,810	313,554	\$26,963,334	518,318	\$41,639,144
Difference	\$(738,371)	0	\$(1,996,919)	0	\$(2,735,290)

The total difference of \$(2,735,290) is the "revenue surplus" that the Department's anticipates over the five-year timeframe while incurring \$35,000,000 in debt. The over-recovery of FY17 cost of service by \$2.8M covers the anticipated FY22 added expenses by approximately \$400k. Add the \$400k to a \$4.4M reduction in debt

service subtracting a \$2.1M addition to debt service equals the \$2.7M revenue surplus.

Based on the debt service coming off the rate revenue requirements for sewer and the over-recovery witnessed in FY17 that will cover the next five (5) years of anticipated expenses, staff does not recommend a rate increase for FY19.

Staff did develop recommendations to increase water and sewer connection fees, also known as system development charges (SDC's) or system capacity buy-in fees, as well as some provisions for Operations and Maintenance to recoup labor and materials for certain physical water taps (e.g., gang meter vaults) and sewer taps that require digging up existing roadways and pavement. The revisions to Chapter 33 of the City Code, Water and Sewers, regarding these items is in the following section.

DRAFT ORDINANCE

ORDINANCE 18-O-23 amending the Murfreesboro City Code, Chapter 33—Water and Sewers, Sections 33-2 and 33-50, regarding water and sewer tap and connection fees and adding Section 33-44 regarding STEP sewer use fees.

WHEREAS, the Water Resources Board recommended the following amendments to the Murfreesboro City Code at its March 27, 2018 and April 24, 2018 meetings.

NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MURFREESBORO, TENNESSEE, AS FOLLOWS:

SECTION 1. Section 33-2, Charges for taps made by City, of the Murfreesboro City Code is hereby amended at subsection (A) by deleting paragraph 4 and substituting in lieu thereof the following:

“Charges for taps and service lines installed larger than one-inch, or where gang meter vaults are deemed necessary by the Director due to limited right-of-way and/or green-space, or to avoid private utility infrastructure over public utility infrastructure, shall be the costs of labor, equipment, and materials.”

SECTION 2. Section 33-2, Charges for taps made by City, of the Murfreesboro City Code is hereby amended at subsection (A) by amending the Connection Fees in the table as follows (all other connection fees in this section will remain unchanged):

Customer Description	Connection Fee
Restaurants	\$65 per seat
Hotel/motel	\$350 per room
Hospitals/Nursing Home	\$540 per bed
Schools	\$16 per student
Office complex over 5,000 square feet:	
Per 1,000 square feet of habitable floor space	\$1,200 per SFU Equivalent
Office complex over 35,000 square feet	\$1,200 per SFU Equivalent
Laundries	\$1,200 per SFU Equivalent
Car Wash:	
Automatic Nylon Brush	\$10,800 per bay
Full Service Attended	
Brushless Automatic	

SECTION 3. Section 33-50, Sanitary sewer connection or tapping fees and house service fees or charges, of the Murfreesboro City Code is hereby amended at subsection

(A) by amending the Connection Fees in the table as follows (all other connection fees in this section will remain unchanged):

Customer Description	Connection Fee
Restaurants	\$110 per seat
Hotels/motels	\$800 per room
Hospitals/Nursing Home	\$800 per bed
Schools	\$24 per student
Office complex, 5,000 square feet or more and, for each 1,000 square feet of habitable floor space over 5,000 square feet	\$2,550 per SFU Equivalent
	\$2,550 per SFU Equivalent
Office complex, over 35,000 square feet	\$2,550 per SFU Equivalent
Laundries	\$2,550 per SFU Equivalent
Car Wash:	
Automatic Nylon Brush	\$16,800 per bay and per SFU Equivalent for Special Sanitary Sewer Assessment Districts
Full Service Attended	
Brushless Automatic	
House service charges based on ROW width:	
Right-of-way less than 50 feet	\$1,000 where existing laterals exist to edge of ROW.
Over 50 feet and less than 60 feet	
Over 60 feet and less than 80 feet	For new taps and laterals, O&M material and labor costs recouped.
80 feet and greater	

SECTION 4. Section 33-2, Charges for taps made by City and Section 33-50, Sanitary sewer connection or tapping fees and house service fees or charges, of the Murfreesboro City Code are hereby amended at subsection (A) by deleting the lines for

SECTION 5. Section 33-50, Sanitary sewer connection or tapping fees and house hand operated car wash fees.

(B) by deleting the following regarding House service charges:

Right-of-way less than 50 feet \$1,000.00 Over 50 feet
and less than 60 feet \$1,200.00 Over 60 feet and
less than 80 feet \$1,600.00 80 feet and greater
\$2,200.00

And substituting in lieu thereof the following:

\$1,000 where existing laterals exist to edge of ROW.

For new taps and laterals, O&M material and labor costs
recouped.

SECTION 6. Chapter 33, Water and Sewers of the Murfreesboro City Code is hereby
amended by adding a new Section 33-44 as follows:

**SECTION 33-44 - SEPTIC TANK EFFLUENT PUMP (STEP) SCHEDULE OF SEWER USE
FEES.**

The MWRD shall from time to time recommend, and the City Council shall by resolution
adopt, a schedule of STEP user sewer fees.

SECTION 7. That this Ordinance shall take effect fifteen (15) days after its passage upon
second and final reading, the public welfare and the welfare of the City requiring it.

Passed:

Shane McFarland, Mayor

1st reading _____

2nd reading _____

ATTEST:

APPROVED AS TO FORM:

Melissa B. Wright
City Recorder

Craig D. Tindall
City Attorney

SEAL

BILL AMOUNT FOR SELECTED RESIDENTIAL MONTHLY CONSUMPTION

		No raise in minimum bill or commodity rate				
		Proposed Rate 2018-2019				
		\$3.66/kgal water, \$5.67/kgal sewer				
Gallons	Cubic Feet	Water	Sewer	Total	Increase	% increase
		\$8.22	\$10.22	\$18.44	\$0.00	0.00%
748	100	\$10.96	\$14.46	\$25.42	\$0.00	0.00%
1,122	150	\$12.33	\$16.58	\$28.91	\$0.00	0.00%
1,496	200	\$13.70	\$18.70	\$32.40	\$0.00	0.00%
2,244	300	\$16.44	\$22.94	\$39.38	\$0.00	0.00%
2,992	400	\$19.18	\$27.18	\$46.36	\$0.00	0.00%
3,740	500	\$21.92	\$31.42	\$53.34	\$0.00	0.00%
4,047	541	\$23.04	\$33.16	\$56.20	\$0.00	0.00%
4,989	667	\$26.50	\$38.50	\$65.00	\$0.00	0.00%
5,236	700	\$27.40	\$39.90	\$67.30	\$0.00	0.00%
5,984	800	\$30.14	\$44.14	\$74.28	\$0.00	0.00%
6,732	900	\$32.88	\$48.38	\$81.26	\$0.00	0.00%
7,480	1,000	\$35.62	\$52.62	\$88.24	\$0.00	0.00%
9,971	1,333	\$44.74	\$66.74	\$111.48	\$0.00	0.00%
11,220	1,500	\$49.32	\$73.82	\$123.14	\$0.00	0.00%
14,960	2,000	\$63.02	\$95.02	\$158.04	\$0.00	0.00%
22,440	3,000	\$90.42	\$137.42	\$227.84	\$0.00	0.00%
24,931	3,333	\$99.54	\$151.54	\$251.08	\$0.00	0.00%
37,400	5,000	\$145.22	\$222.22	\$367.44	\$0.00	0.00%
44,880	6,000	\$172.62	\$264.62	\$437.24	\$0.00	0.00%
67,320	9,000	\$254.82	\$391.82	\$646.64	\$0.00	0.00%
89,760	12,000	\$337.02	\$519.02	\$856.04	\$0.00	0.00%
112,200	15,000	\$419.22	\$646.22	\$1,065.44	\$0.00	0.00%
149,600	20,000	\$556.22	\$858.22	\$1,414.44	\$0.00	0.00%
2,244	300	\$16.44	\$22.94	\$39.38	\$0.00	0.00%
5,004	669	\$26.55	\$38.59	\$65.14	\$0.00	0.00%

Note: The table above is the fee schedule for monthly consumptions associated with 5/8" or 3/4" water meters (tax not included).

RATE AFFORDABILITY

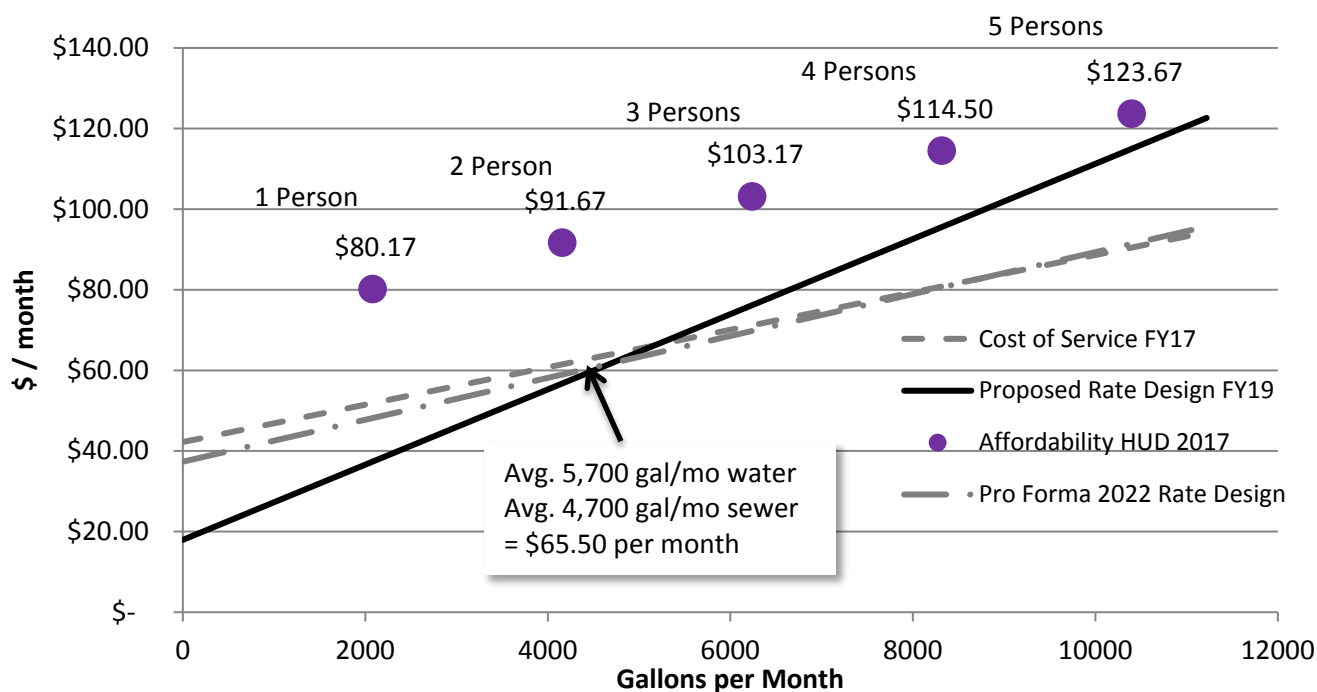
The Department seeks to maintain a target affordability ratio of 2.0% or less for water and 2.0% or less for sewer (combined 4.0%). This is measured by the dividing of the average annual residential bill by the median household income of the City. When setting rates and evaluating rate structures, the impact on low income customers is considered, while assuring that cost of service principles are met.

The Safe Drinking Water Act (S.1547) established special assistance where the average residential water bill exceeds 2 percent of median income.

AWWA Research Foundation report entitled “Water Affordability Programs” suggest that programs should not be based on median income but rates that cause water bills to exceed 2 percent of income for impoverished households. Because of the focus on impoverished households, measure of the 2 percent was selected to determine if water costs were burdensome.

The FY19 proposed monthly cost of water, tax, sewer and stormwater is compared to the Threshold Limits for Affordable Housing Assistance Murfreesboro Community Development 2017 below. Based on the average of 2.5 people per household using 5,700 gallons per month of water and 4,700 gallons per month of sewer, the annual cost of water, tax, sewer and stormwater after July 1, 2018 is calculated as \$865, or \$72.09 per month. This expense is less than 4% of the very low-income threshold of \$80.17 per month, or \$962 annually. In comparing one (1) person through a five (5) household, the affordability metric passes.

FY19 RATE DESIGN: AFFORDABILITY FOR RESIDENTIAL 5/8" METERS



RATES, FEES AND CHARGES OBJECTIVES

The Department's schedule of rates, fees, and charges are reviewed and adjusted, if necessary, on an annual basis to ensure that rate and revenue levels are adequately funding the overall goals and objectives of the Department and are reasonable and affordable. Rates and fees are established with consideration given to the following long-term rate setting objectives.

Rate structures should reflect fixed costs that don't vary with changes in water usage and production. They should also reflect variable costs, which do vary depending on the amount of water used or produced.

The following objectives provide a general framework which can be consistently applied to future water and sewer rate reviews. Because some policy objectives may unavoidably conflict with others, they should be considered in their entirety to strike an appropriate balance among them when reviewing and establishing the Department's water and sewer rates.

1. **Revenue Requirements:** Rates shall be sufficient to meet the Department's revenue requirements, while striving to charge the lowest feasible cost to the customer over the long run.
2. **Customer Payment of Cost-of-Service:** The Department shall implement a system of rates, fees, and charges that effectively recovers allocated costs to customers in proportion to their responsibility for the costs incurred by the utility. Adherence to the cost-of-service principle (benefiting party pays) shall be a guiding philosophy.
3. **Equity:** Rates should reflect a fair apportionment of the various costs of providing service among different groups of customers served by the Department based on their differing service requirements.
4. **Efficiency:** Rates should provide incentives for cost effective use of facilities and conservation of water and efficient use and reuse of water resources.
5. **Rate Stability:** Rate levels and structures shall be changed through gradual programmed implementation of rate adjustments.
6. **Financial Stability:** Rate levels and structures shall be sufficient in the recovery of costs to operate the system.
7. The Department will seek to maintain a target affordability ratio of 2 % or less for water and 2% or less for sewer (combined 4%). This is measured by the dividing of the average annual residential bill by the median household income of the City. When setting rates and evaluating rate structures the impact on low income customers is considered, while assuring that cost of service principles are met.
8. **Connection Fees:** The Department shall collect connection fees and sanitary sewer district fees from new water and sewer customers. These charges are intended to recover costs associated with facility capacity expansions necessary to meet the new customer's water and sewer demands. These charges provide a method for dividing the cost burden of existing and planned facilities between old and new customers.
9. Periodically the Department shall consider using the services of a qualified independent consultant to conduct a comprehensive cost of service and rate study every two years.

DIVISION NARRATIVES – ACCOMPLISHMENTS AND GOALS

DEPARTMENT SUMMARY

The Murfreesboro Water Resources Department (Department) is an enterprise fund of the City of Murfreesboro. The fund is managed to fully recover the expenses of providing services from users (as opposed to taxes) and to build and preserve a substantial, long lived capital asset base in the treatment facilities, water distribution and storage system, wastewater collection system and repurified water distribution and storage system. Because utilities have many characteristics of a business, business accounting and financial management rules are usually applied to enterprise funds. Because of this, the presentation of the Department differs from that of the City General Fund Budget.

The Department's aggressive maintenance and replacement programs result in a greater asset value. The Total Asset Value as of June 30, 2016 is \$477,043,767, a 6.19% increase from FY15. The Department financial and management model is to improve infrastructure each year, strive to provide excellent customer service, make knowledge-based decisions and stretch the dollar to get the maximum benefit and minimize waste. The employees of the Department are dedicated to providing its customers with a bountiful supply of clean, safe water, sanitary sewer service and repurified (i.e., recycled) water service an economical and efficient manner. Stormwater permit management is also provided.

Water service is provided through approximately 26,824 meter connections within the Murfreesboro Water Resources Department water service area (35.54 square miles), and sanitary sewer service is being provided to areas served in the Consolidated Utility District water service area for an estimated additional 18,093 sewer only customers. The City operates a separate fund for Stormwater services and has 34,939 customers. There are 60.46 square miles within the city limits and 179.6 square miles within the Murfreesboro Urban Growth Boundary (UGB). The City also operates the largest reclaimed water system in the State of Tennessee; having 160 customers and delivering between 4 to 8 million gallons per day of high quality repurified water.

There are a total of 168 full time and five (5) part-time positions budgeted for fiscal year 2018. There are three (3) licensed professional engineers, one (1) engineer-in-training, one (1) certified public accountant, three (3) professional operators, and fifty-one (51) employees with a Tennessee Certified Operators License for one or more of the following: water treatment, wastewater treatment, water distribution and wastewater collection system; eleven (11) at the Wastewater plant, eighteen (18) at Operations & Maintenance, and twenty-two (22) at the Water plant.

The Murfreesboro Water Resources Board held its first meeting on December 12, 1958. The first members consisted of C. B. Huggins, Herman O. Jones (Councilman), Jennings A. Jones, Sam Lasseter, and Fount Pitts. At that time, the Mayor was A. L. Todd, Jr., City Manager was H. L. McCullough, and Joe W. Lovell was Superintendent of the Water Department. The Director of the Department reports to the City Manager.

A seven-member advisory board has the oversight of department policy and financial operations. The Board makes recommendations to the City Council. User charges provide the sole source of revenue for the Water Resources Department. No general tax base revenues are received, yet our rates are well below those of many of our sister utilities.

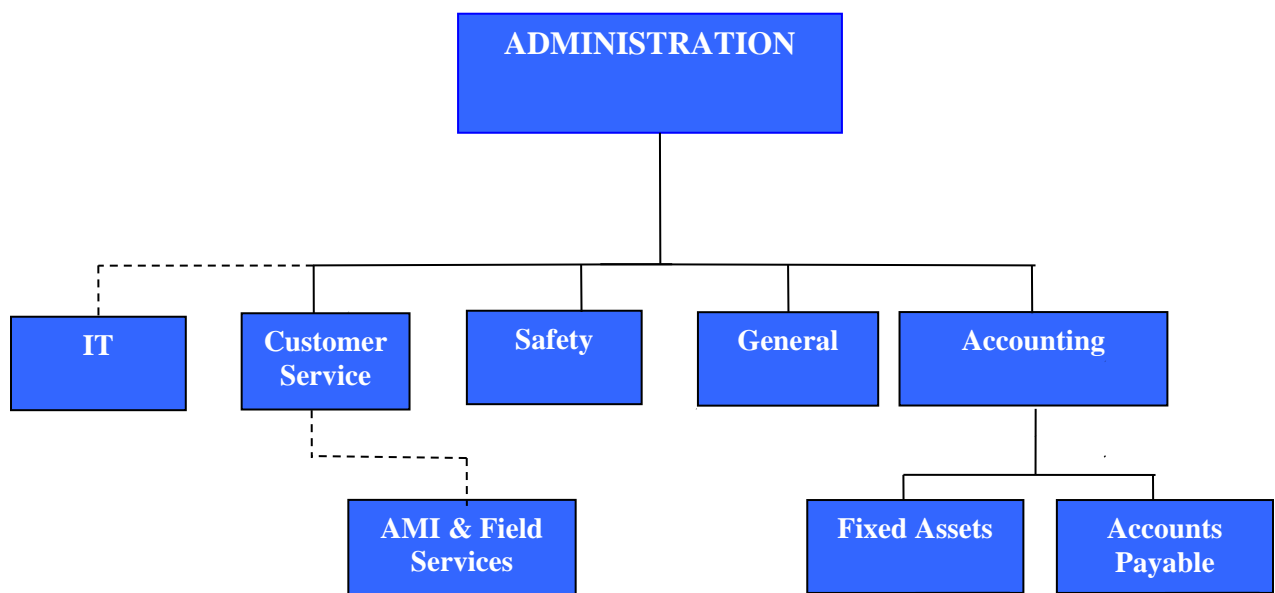
The Water Resources Board meetings are held on the fourth Tuesday of each month at 3:30 p.m., at 1725 South Church Street, Murfreesboro.

ADMINISTRATION & CUSTOMER SERVICE

DIVISION SUMMARY

The mission of the Murfreesboro Water Resources Administration and Customer Service staff is to provide service excellence in the initiation and ongoing service of water, sewer and repurified water. This division also expect to offer several web based platforms for our customers to engage in their water consumption and billing history to afford the opportunity to formulate and maintain water budgets. The “Help 2 Others” (H2O) program is intended to be a partnering collaboration with Rutherford County Community Helpers to afford aid to lower income customers who may need aid to pay for their water and sewer services.

ORGANIZATIONAL CHART



IMPLEMENTATION OF COUNCIL PRIORITIES SAFE AND LIVABLE NEIGHBORHOODS

- Reconfigure customer service office to provide better service to customer.
- Employee health and safety severity rate
- Training hours per employee

STRONG AND SUSTAINABLE FINANCIAL AND ECONOMIC HEALTH

- Update financial reviews and conform to Financial Management Policies that were adopted on December 17, 2013.
- Maintain reserve funds to annual operating expenses
- Maintain a Debt Service Coverage Ratio of 1.2 or greater

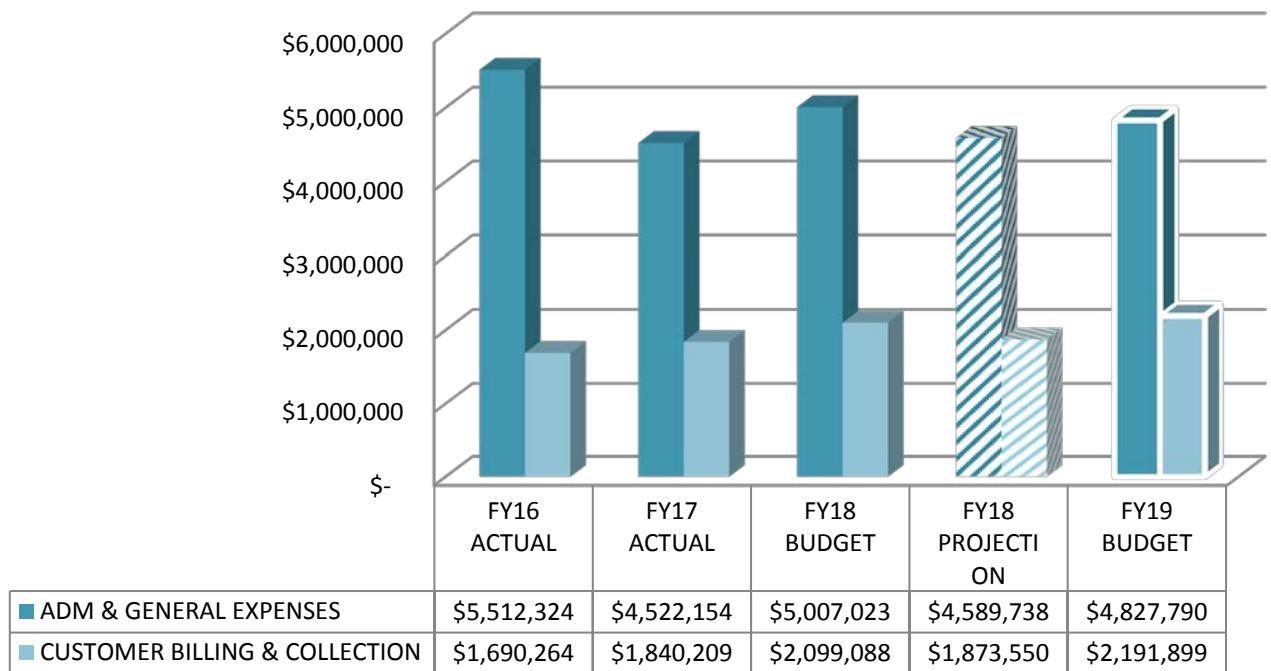
- Completed a Cost of Service Study for year ending June 30, 2017; over-recovered 107% in total (water 112% and sewer 104%)
- Fund capital expenses related to road projects from reserve funds
- Fund \$1.25 million annually for sewer rehabilitation
- Continue implementation of the adopted Water Resources Department Information Technology (IT) master plan

EXCELLENT SERVICES WITH A FOCUS ON CUSTOMER SERVICE

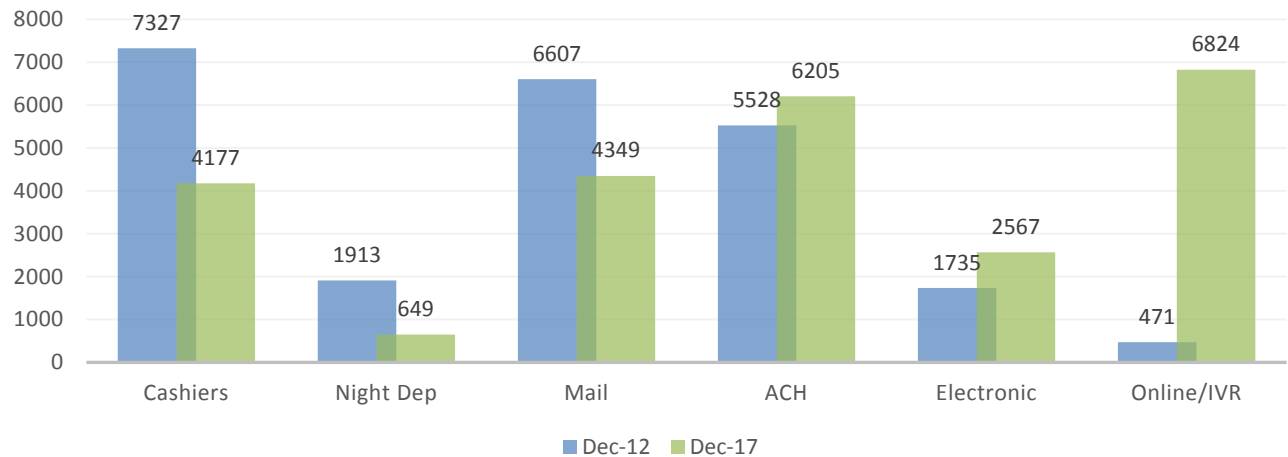
- Allow Customer interface to account history and usage through new CIS and AMI web-based portals, proactively engaging customers primarily through early leak notifications
- Improve billing accuracy
- Voice and email messaging to customers regarding invoicing issues or water interruptions through Interactive Voice Response (IVR) software system.

PROPOSED ADMINISTRATION, ENGINEERING AND CUSTOMER SERVICE BUDGET

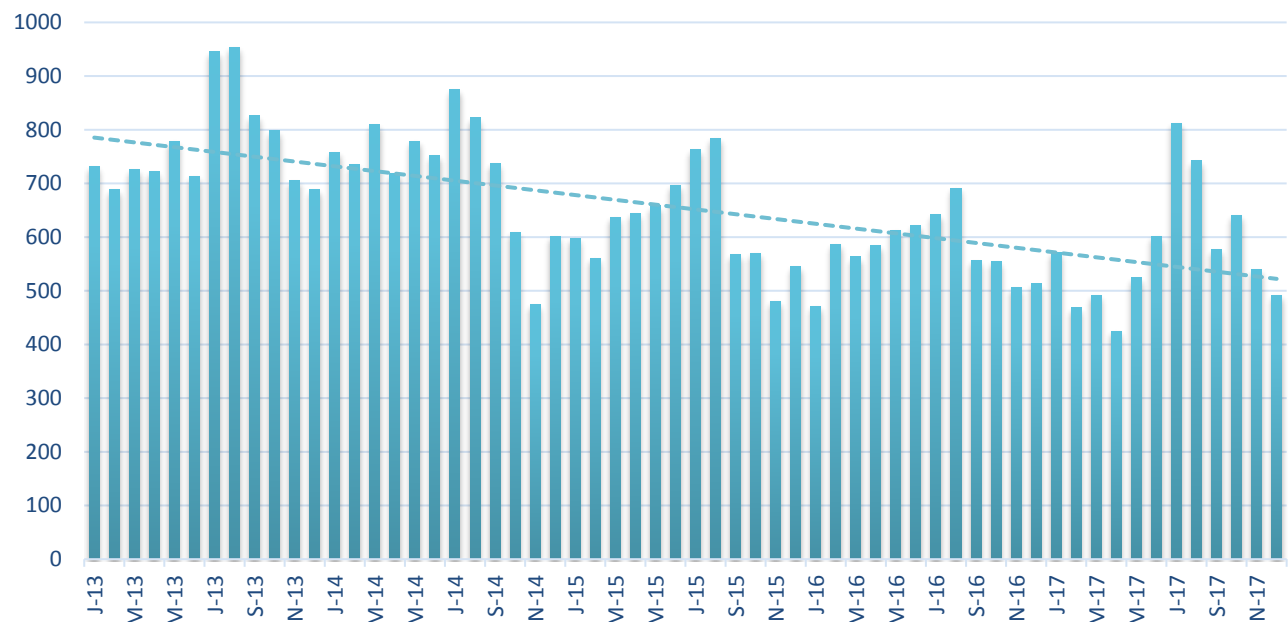
CUSTOMER BILLING/COLLECTION AND ADMIN/GENERAL EXPENSES



Payment by Type Trend A Snapshot in Time - Dec 2012 compared to Dec 2017



Office Visit Trend 2013-2017



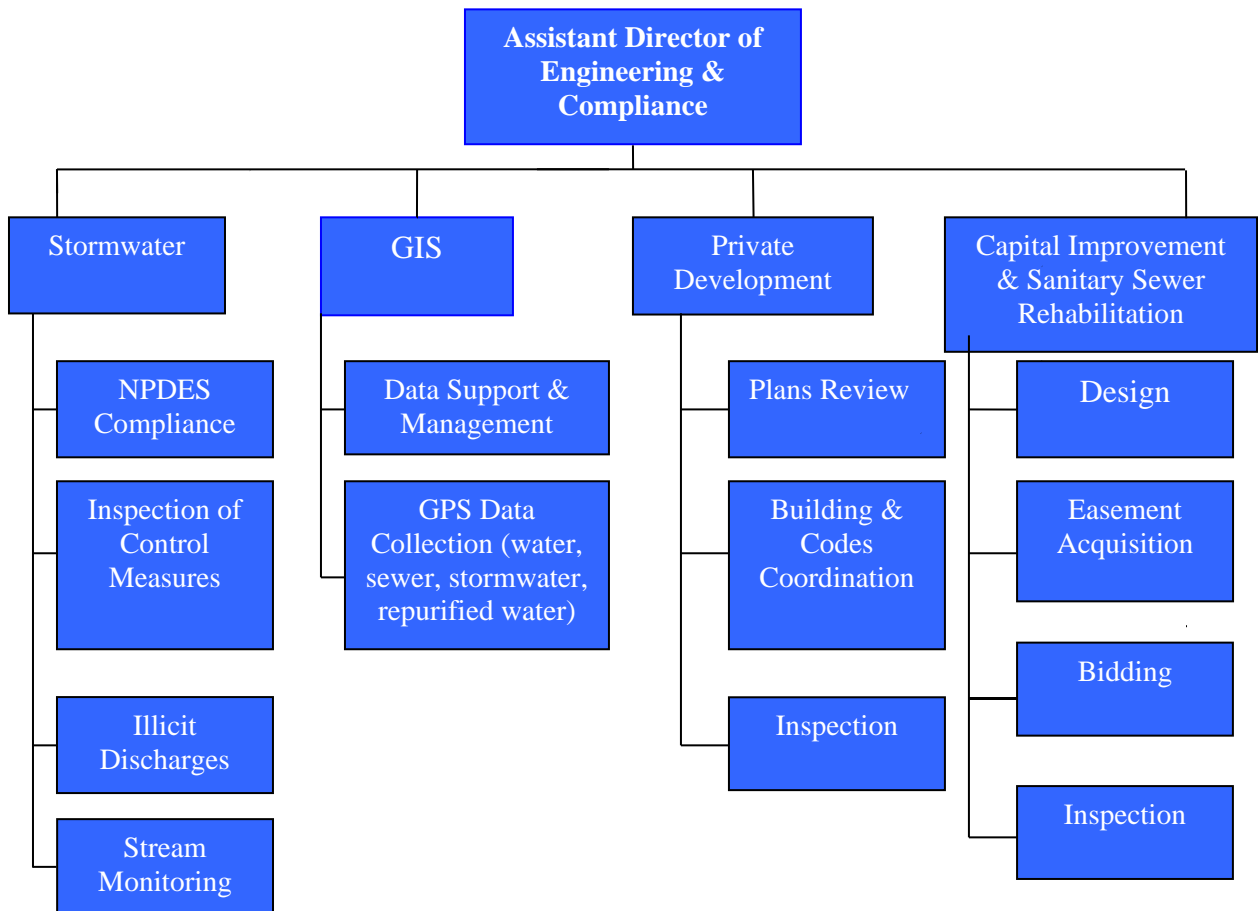
- Walk in and drive through transactions are down 27.7% (~2100 per month)
- Cashier transactions down 43% from 2013 through 2017
- On-line payments up 1350%
- Mailed payments down 65.8%
- Office visits down 25.7% from 2013 through 2017 (772 per month average to 574 per month average)

ENGINEERING

DEPARTMENT SUMMARY

The mission of the Murfreesboro Water Resources - Engineering Department staff is to provide adequate water, sewer and repurified water infrastructure for the citizens of Murfreesboro, to provide information regarding this infrastructure geographically through our GIS system and to meet the State of Tennessee's NPDES Stormwater permit requirements for MS4 Cities.

ORGANIZATIONAL CHART



IMPLEMENTATION OF COUNCIL PRIORITIES SAFE AND LIVABLE NEIGHBORHOODS

- Provide adequate water, sewer and repurified water infrastructure.
- Obtain easements and manage encroachments into easements to allow proper maintenance of infrastructure.
- To continue to upsize water mains to provide fire protection.
- Continue to upsize existing sewer infrastructure as development continues.
- To rehabilitate the existing sewer collection system to prevent back-ups and overflows.

STRONG AND SUSTAINABLE FINANCIAL AND ECONOMIC HEALTH

- Provide coordination of the City's and Murfreesboro Water Resources Department's Capital Improvement Program.
- Design and provide project management and construction inspection as necessary to strive to reduce the total cost of the Capital Improvement Program.
- To maintain a Closed-Circuit Television database of the sewerage system to assist with the Operations and Maintenance of the sewerage system.

EXCELLENT SERVICES WITH A FOCUS ON CUSTOMER SERVICE

- Ensure prompt review and approval of private development construction plans for water, sewer and repurified water extensions to include coordination and explanation of the review and approval process with both engineers and developers.
- Provide water, sewer and repurified water connection fees for current projects under development within a timely manner.

FY 2018 ACCOMPLISHMENTS

- Designed and Bid the 2016-2017 Sewer Rehabilitation Project currently under construction.
- Completed numerous projects through the existing Mechanical/Electrical Services Contract with John Bouchard and closed this contract out.
- Designed and Bid a new Mechanical/Electrical Services Contract
- In the process and almost complete w/ the approval of updating the Water/Sewer Connection Fees Associated with Commercial and Industrial Developments
- About 95% complete with the Inspection and Installation of the Department's first STEP (Septic Tank Effluent Pump) System at Mankin Pointe.
- Completed the Construction of the Sinking Creek WWTP, Phase 4D – Expansion to 24 MGD, and Dejarnette Lane Pump Station #13 Replacement
- Completed the Raleigh Ct. Pump Station Abandonment by Acquiring Easements and extending gravity sewer by our O&M Construction Crew.
- Recalculate non-residential Stormwater Fees for parcels in City Limits
- GIS Server replacement, data transfer and upgrade
- Created SOP's for standard GIS/CIS tasks
- Linked COBOL based Tap Information to correct Acct records in CIS Infinity to retire historical COBOL Tap System (62% complete)
- Verified properties connected/not connected to sewer-updated billing in CIS
- GPS Base Station & Rover Unit replacement/upgrade
- Created Watershed "Dashboards" with GIS which include metrics such as riparian acreage, imperviousness, & land-use
- Maintained Stormwater infrastructure & SCM GIS Databases
- Developed topical stormwater maps for public viewing & use
- Created & maintained new MWRD website

- Continued updates to mobile/web applications with ArcGIS Online. Currently using 34 applications for employee and public use.
- Continued to maintain Facebook account for MWRD.
- Continued to maintain MWRD's web site with the City of Murfreesboro.

FY 2019 DEPARTMENT GOALS

- Revise and Receive approval of the Department's Standard Development Contract for Water/Sewer/Repurified Water main extensions.
- Develop decentralized sewer treatment system Septic Tank Effluent Pump (STEP) design guidelines and development policies
- Update and receive approval of updates to the Water/Sewer/Repurified Water Standard Specifications & Details for Construction
- Continue the Preliminary Design Phase of the NE Regional Pump Station, Force main and Gravity Sewer.
- Continue the Master Planning for the Cherry Lane Corridor to include Sanitary Sewer, Repurified Water and the NE Regional Force main.
- Continue the design of the Water/Sewer Replacements in conjunction with the Bradyville Pike Roadway Widening TDOT project.
- Design & Bid of the Water/Sewer Replacements in conjunction with the Jones Boulevard Widening from Ridgley Road to Northfield Blvd.
-
- Continue J. Percy Priest reservoir modeling confirming Corps of Engineers 2016 reallocation report results; provide recommendation regarding purchasing additional storage from Corps
- Continue the Development of the Biosolids Master Plan
- Continue to Development of the Water Resource Integration Plan (WRIP) as a corollary to Murfreesboro 2035
- TN Department of Environment and Conservation (TDEC) consolidation of bioassessment surveys and waste load allocation modeling so as to develop a new 2021 National Pollutant Discharge Elimination System (NPDES) permit rationale
- Manufacturing pilot, marketing study and agricultural stakeholder engagement for Class A biosolids
- Complete construction of the 2016-2017 Sewer Rehabilitation Project and Design/Bid the 2018/2019 Rehabilitation Project
- Re-bid and Construct the Ransom Dr. Pump Station Replacement.
- Continue to Design and Construct Water & Sewer Infrastructure Improvements in conjunction with the City's Annual Paving Efforts Utilizing the experience of Operations and Maintenance
- Continue Permanent & Temporary Flow Monitoring within the Department's sewer system.
- Continue to create & publish metadata for all features in GIS
- Continue to support all facets of business with GIS and database technology
-
- Continue to recover lost revenue from non-billed accounts with Fire Protection, identify locations where fire protection systems have not been metered & direct installation, & establish a fair & equitable mechanism to bill for fire protection.
- Continue to improve stormwater mapping in and around the downtown area and provide accurate mapping of all stormwater infrastructure
- Continue to use ArcGIS Online for Department and Public use for web and mobile mapping needs

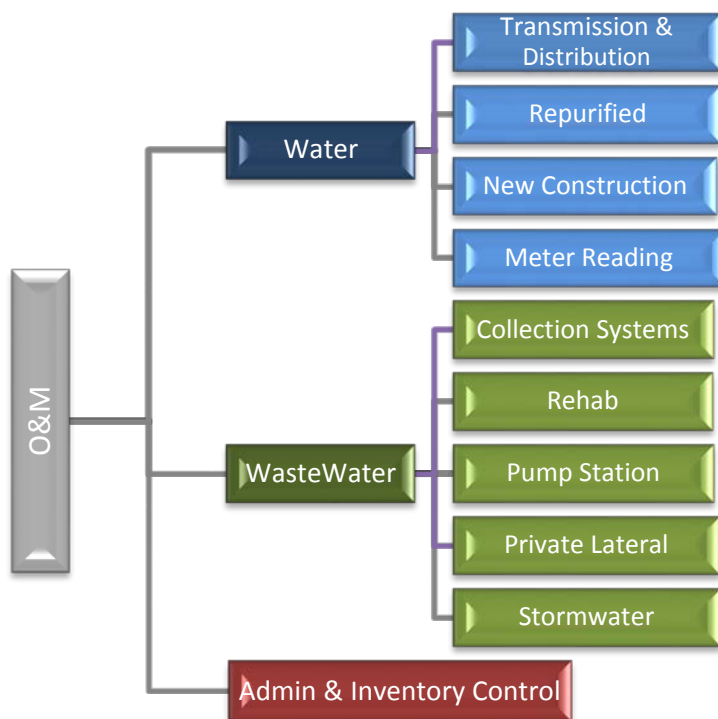
OPERATIONS AND MAINTENANCE

DEPARTMENT SUMMARY

The Operations and Maintenance division of the Murfreesboro Water Resources is an essential part of the department in that it encompasses the management of the City's Wastewater Collection and Water Distribution Lines. This includes the maintenance and rehabilitation of existing water and sewer lines, installing new meters and sanitary sewer cleanout connections, repairing water main leaks, clearing main sewer line blockages, and pump station maintenance and repairs. This division is responsible for new construction projects including the replacement and installation of new main water lines and sewer lines throughout the City of Murfreesboro.

The sanitary sewer service planning area encompasses the present city limits as well as the area within the Murfreesboro Urban Growth Boundary (UGB) and certain drainage basins which are contiguous to the UGB and drain naturally into the UGB. The total planning area encompasses 203 square miles. This planning area was established as part of the 201 Facilities Plan Update in 2002. The wastewater collection system consists of 622.40 miles of gravity sewer (reflects an increase of 9.80 miles), 46 pumping stations with 34.5 miles of force main and 15,220 manholes (increase of 320), and 211.50 miles of house service lines (increase of 9.80 miles).

ORGANIZATIONAL CHART



IMPLEMENTATION OF COUNCIL PRIORITIES

SAFE AND LIVABLE NEIGHBORHOODS

- We provide and maintain 442.48 miles of high quality water service for all citizens of the City of Murfreesboro
- Provide and maintain 25.42 miles of repurified water lines.
- Provide and maintain 3,455 fire hydrants to maintain Class 2 fire protection.
- Insure well trained staff follows all public health procedures set forth by the TDEC and EPA.
- Certifications – Twenty-two certified Grade II Operators in Collection/Distribution.
- Meters – 26,912 (increase of 90).
- Stormwater –676.51 (increase of 11.30)
- Cleanouts installed 1,041 (decrease of 99)

STRONG AND SUSTAINABLE FINANCIAL AND ECONOMIC HEALTH

- Provide water and sewer service that meets all consumers needs along with maintaining an ISO Fire Rating Class 2.
- Continue to operate within the budget.

EXCELLENT SERVICES WITH A FOCUS ON CUSTOMER SERVICE

- Maintain and expand an infrastructure that provides water and sewer service that will attract businesses and residents.
- Provide immediate response to customers' complaints, along with maintaining all services to the consumers.
- Respond to citizen inquiries regarding other city services by directing them to the right department and follow up that they have been contacted by others.
- Continue to rehabilitate the water and sewer infrastructure by replacing water/sewer main lines, updating house service connections including customers' sanitary sewer house services if criteria for replacement are met.

FY 2018/2019 DEPARTMENT GOALS

- Continue to replace distribution system infrastructure to improve water quality and fire protection.
- Continue to rehabilitate the sanitary sewer collection system to reduce inflow/infiltration and pumping and treatment process costs.
- Continue to maintain the approximately 1124.80 miles of water, sewer, and repurified infrastructure at a high quality at the most economical cost possible to the consumer. (Increase of 11.02)
- Maintain \$1.1 M inventory and maintain 99% accuracy. (Last year achieved 99.47% accuracy)
- Deploy Micro Main to improve efficiency by automating numerous tasks.
- Work with Street Department to maintain 676.51 miles of stormwater system.

- Continue house service crew to repair and/or replace customer house sewer service at no charge to the customer if it meets the department's criteria.
- Conduct ongoing meter testing to ensure maximum accuracy and promptly identify leaks.

BENCHMARKING MEASUREMENTS

- Provide at least 216 hours of educational training for Distribution II and Collection II Operators according to TDEC.
- Complete 8 hours of Blasting Training required by TN Department of Commerce and Insurance.
- Achieve a score of 100 on the Sanitary Survey. (Previous score 100).
- Increase number of certified operators – four employees achieved DS II and CS II Operator Licenses from TDEC.
- Continue Employee Involvement Program (EIP) to improve employee communication and customer service.

DRINKING WATER TREATMENT PLANT

DIVISION SUMMARY

The Water Treatment Plant is charged with directing and conducting treatment, production and distribution of potable water for consumption; quality control and assurance through laboratory analysis of the potable water; the maintenance all plant facilities, storage tanks and equipment; flushing of distribution mains and dead-end lines; and identifying, detecting and preventing cross-connections to the potable water system.

The Stones River Water Treatment Plant is located behind the Alvin York Veteran's Administration Hospital, at 5528 Sam Jared Road. It has a treatment capacity of 20 million gallons per day. The last expansion in 2010 increased treatment and pumping capacity, added membrane filtration, granular activated carbon contactors, standby power generation and changed the disinfection process from chlorine gas to sodium hypochlorite. The water quality laboratory facilities were remodeled and expanded. The sand filters, replaced by membrane microfiltration, were converted to granular activated carbon beds providing removal of taste and odors; pharmaceuticals and personal care products; and disinfection byproducts. The plant operates continuously producing an average of 12 million gallons per day, with a peak of 17 million gallons per day, of potable water. All of which meets or surpasses all state and federal drinking water regulations.

The primary water source is the East Fork of the Stones River with an alternative source at the J. Percy Priest Lake, both of which are classified as surface water supplies. The water system is interconnected with Consolidated Utility District of Rutherford County's potable water system in case of an emergency.

The Department's water service area encompasses 36 square miles. The water distribution system includes five water storage tanks with a total storage capacity of 12 million gallons. All five storage tanks have standby power generation which allows the water treatment plant to control water in and out of the tank; monitor the telemetry systems; monitor the security system; and keep the wireless network operating in the event of a power outage.

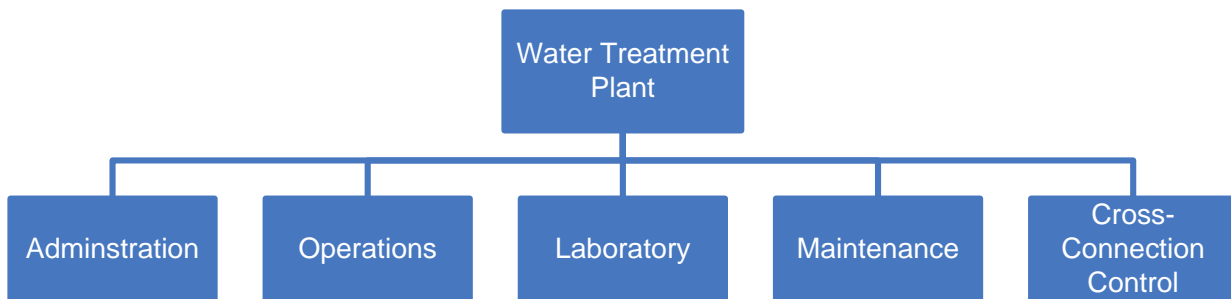
Murfreesboro maintains a Class 2, ISO Public Protection Classification for fire protection. The water system accounts for 40% of the score and the remaining 60% the Murfreesboro Fire Department. In the last rating survey, MWRD scored 37.76 points out of a possible 40 for water supply toward the scoring for the classification.

In 2010, the Stones River Water Treatment Plant was recognized by the American Council of Engineering Companies of Tennessee with the 2010 Engineering Excellence Grand Award and the Kentucky-Tennessee Section American Water Works Association 2010 Award of Excellence for Plant Operations in the 10 million gallons per day and above category.

In 2014, the Stones River Water Treatment Plant became a member in the Partnership for Safe Water Treatment Plant Optimization Program. The Plant is going into its fourth year in the program.

In 2017, the Murfreesboro Water Resources Department received a 99%, 596 points out of 599, on the Tennessee Department of Environment and Conservation Water Resources Sanitary Survey.

ORGANIZATIONAL CHART



IMPLEMENTATION OF COUNCIL PRIORITIES SAFE AND LIVABLE NEIGHBORHOODS

- Safeguarding public health and the environment through highly trained personnel dedicated to producing, analyzing and distributing high-quality drinking water.
- Safeguarding public health and the environment through the proper handling and disposal of chemicals.
- Safeguarding public health through a well-executed cross-connection control program designed to eliminate possible contamination of the System's drinking water.
- Safeguarding public health through a well-executed distribution flushing program designed to maintain high-quality drinking water.
- Safeguarding public health through a well-qualified staff trained in emergency response.

STRONG AND SUSTAINABLE FINANCIAL AND ECONOMIC HEALTH

- Provide an adequate supply of water and pressure for fire protection to maintain an ISO Class 2 fire rating.
- Provide high-quality drinking water that will attract and maintain businesses and residents.
- Provide sufficient quantity of water to meet customer's demands.
- Provide twelve million gallons of potable water storage.

EXCELLENT SERVICES WITH A FOCUS ON CUSTOMER SERVICE

- Maintain good communication and rapport with neighboring utilities.
- Provide an annual water quality report.
- Provide high-quality drinking water that will attract and maintain businesses and residents.
- Provide immediate response to customer complaints and inquiries.

FY 2018/19 DEPARTMENT GOALS

- Continue to improve energy conservation at all locations and participation in the EnerNOC program.
- Maintain a department standard that water treatment plant operators achieve a TDEC Grade IV water certification within twenty-four (24) months from the date of assignment as an operator.

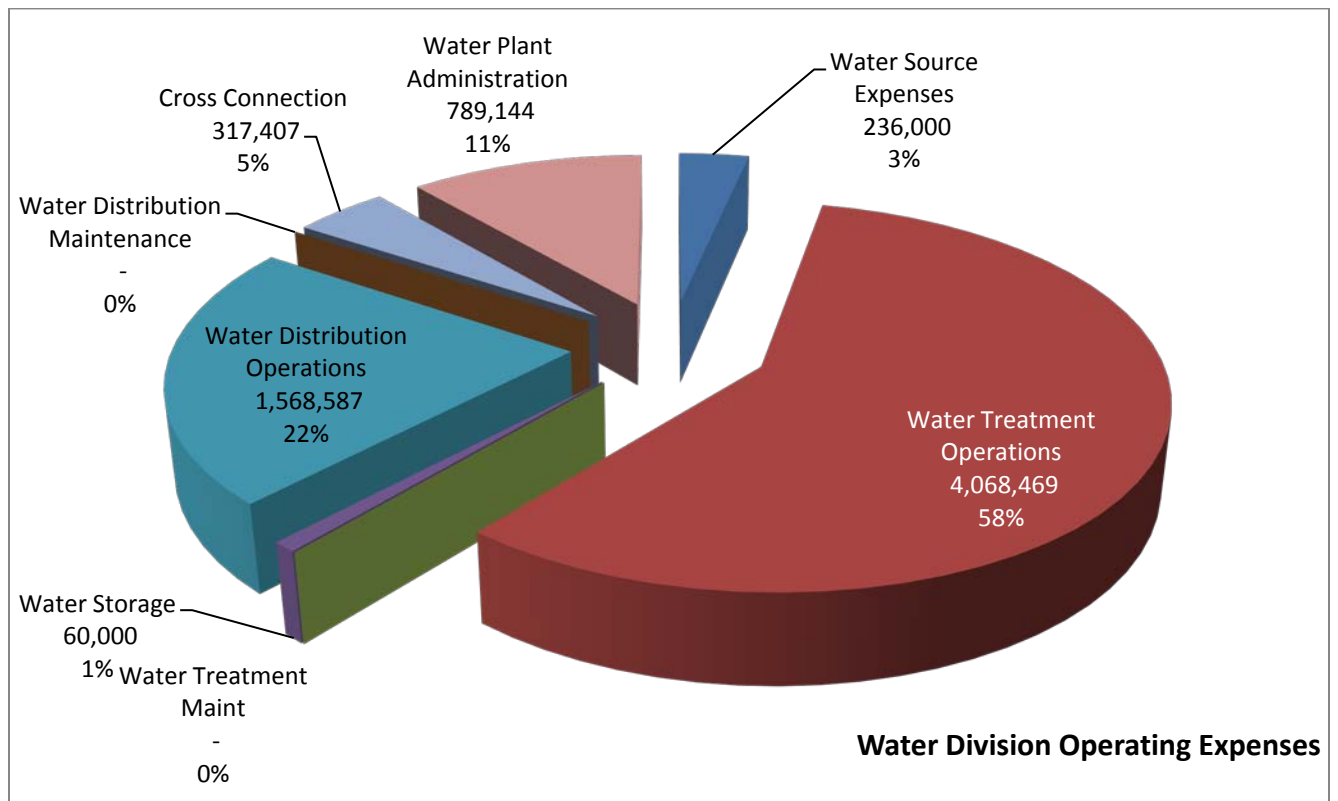
- Encourage Shift Supervisors obtain the Certification Commission for Environmental Professionals' (C2EP) Class IV Professional Operator Certification.

BENCHMARKING MEASURES

- Achieve drinking water compliance rate of 100%.
- Achieve combined filter effluent turbidity of < 0.10 NTU in 95% of all samples measured at 15 min time intervals.
- Maintain certification as a State Certified Laboratory in Chemistry and Microbiology.
- Maintain training hours per full-time employee at twelve (12) hours or more annually.
- Respond to 100% of customer complaints within 24-hours.

WATER LOSS

In accordance with TCA 7-82-702 and 68-221-1009a, the Utility Management Review Board and the Water and Wastewater Financing Board (Boards) have set an excessive water loss percentage at 30%. The Boards adopted the American Water Works Association (AWWA) water loss methodology for determinant water loss reported on financial statements.



WATER RESOURCE RECOVERY FACILITY

DIVISION SUMMARY



The Clean Water Act prohibits discharging pollutants into a "water of the United States" without a National Pollutant Discharge Elimination System (NPDES) permit. The United States Environmental Protection Agency (EPA) has delegated enforcement of this federal law to the Tennessee Department of Environment and Conservation (TDEC). In turn, TDEC has issued the City of Murfreesboro

an NPDES permit to discharge the Murfreesboro Water Resource Recovery Facility's (WRRF) effluent into the West Fork Stones River.

The Murfreesboro WRRF is the heart of an operation which begins with an expansive wastewater collection system that is regulated by a Pretreatment program and a Fat, Oils, and Grease (F.O.G.) program. The operation's process is complete when the effluent is either discharged into West Fork Stones River or recycled for beneficial reuse. The reuse portion of the operation includes an expanding network of over 26 miles of repurified water lines, public irrigation sites, two Department owned farms totaling over 600 acres, and two storage towers with a combined capacity of two million gallons.

The WRRF, located at 2032 Blanton Drive, was constructed in four phases beginning in 1995. The final phase was recently commissioned in the Fall of 2017. It has a permitted design flow capacity of 20 million gallons per day (MGD). The 50% plant expansion provides for the City's rapid population growth.

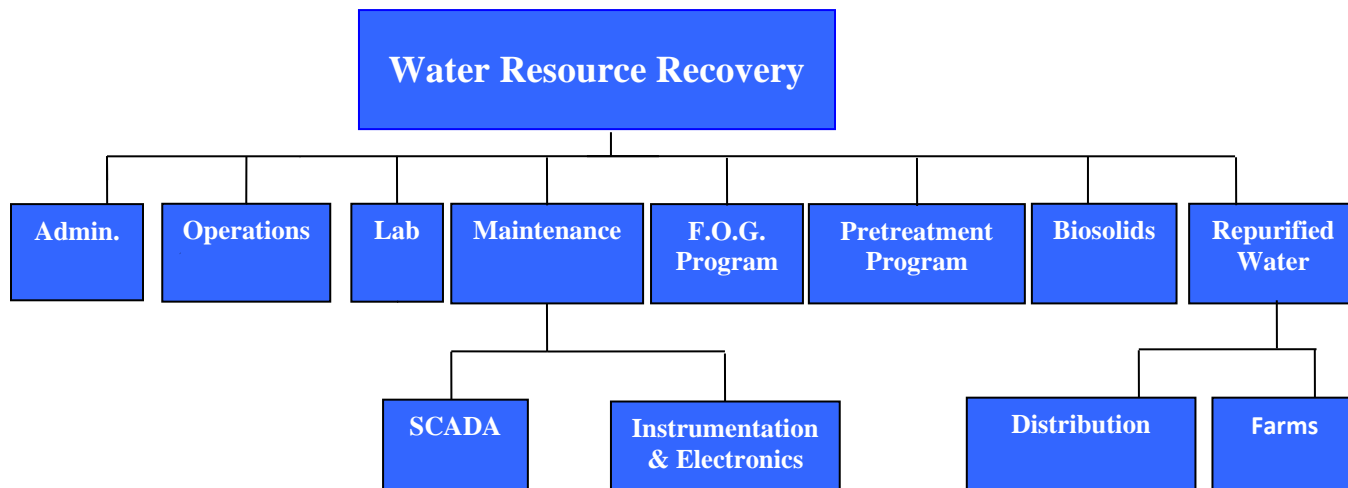
The WRRF provides preliminary treatment with fine step-screens and vortex grit removal. Advanced secondary treatment is a carefully controlled multi-stage activated sludge process that includes carbonaceous BOD removal by oxidation, nitrification, denitrification, and biological phosphorus removal. Three oxidation ditches operated in parallel provide both extended aeration and anoxic zones to accomplish the multiple biological processes. Six secondary clarifiers provide liquid-solid separation and sludge recycle to the oxidation ditches. The effluent from the biological process is passed through thirteen deep-bed sand filters for the removal of fine solids and then disinfected with ultraviolet light. Lastly, the effluent is oxygen enriched by submerged aerators.

In 2001 the Murfreesboro WRRF was recognized by the Greater Nashville Regional Council with the *Local Government Award for Excellence in Wastewater Facilities* and by the American Council of Engineering Companies of Tennessee with the *Engineering Excellence Award*. In 2011& 2015 the plant

received Tennessee's *Beneficial Reuse of Effluent Award* from the Kentucky-Tennessee Water Environment Association. In 2015 MWRRF received the *Outstanding Performance Award* (or "Plant of the Year") from The Tennessee Water and Wastewater Association.

In 2018, MWRRF is slated to receive the *Operational Excellence Award* at the Kentucky-Tennessee Water Professionals Conference for the sixth year in a row.

ORGANIZATION CHART



IMPLEMENTATION OF COUNCIL PRIORITIES SAFE AND LIVABLE NEIGHBORHOODS

- Safeguarding neighborhoods and the environment through the employment of a highly trained staff of scientists, master electricians and mechanics, management information systems specialist, and treatment experts dedicated to producing high-quality effluents.

STRONG AND SUSTAINABLE FINANCIAL AND ECONOMIC HEALTH

- Sustaining adequate capacity to meet wastewater customers' treatment needs.
- Providing sufficient repurified water to meet customers' needs without any service interruptions.

EXCELLENT SERVICES WITH A FOCUS ON CUSTOMER SERVICE

- Providing a high quality product that will attract repurified water consumers.
- Maintaining pretreatment services that are welcoming to new and prospective industries.

- Providing immediate, friendly response to customer inquiries and first call resolution to complaints.

ENGAGING OUR COMMUNITY

- Participating in public outreach to educate students and citizens.
- Conduct facility tours to promote stakeholder understanding and civic engagement.

FY 2019 GOALS

Operations

- Operational excellence with a 100% wastewater effectiveness rate.
- All plant operators to become TDEC Grade IV Wastewater Treatment certified.
- Encourage Master Operators to get PO & Collection System certification.
- Install wet chemistry nutrient meters and improve phosphorus removal.

Biosolids

- Optimize Fournier presses and plan for eighth press.
- Complete the Biosolids Master Plan to produce Class A EQ Biosolids.

Laboratory

- Successfully pass the DMR-QA Study 38 analysis.
- Prepare for potential Wastewater Laboratory certification.

Pretreatment Program

- Streamline services for new and potential industrial customers.
- Maintain a good rapport with all industrial users.

F.O.G. Program (Fats, Oil, & Grease)

- Increase quality control measures for grease control equipment services.
- Explore new methods to reduce F.O.G. accumulations in the collections system.

Maintenance

- Further develop and utilize the Computer Maintenance Management System.
- Improve preventative and predictive maintenance measures.

Repurified Water

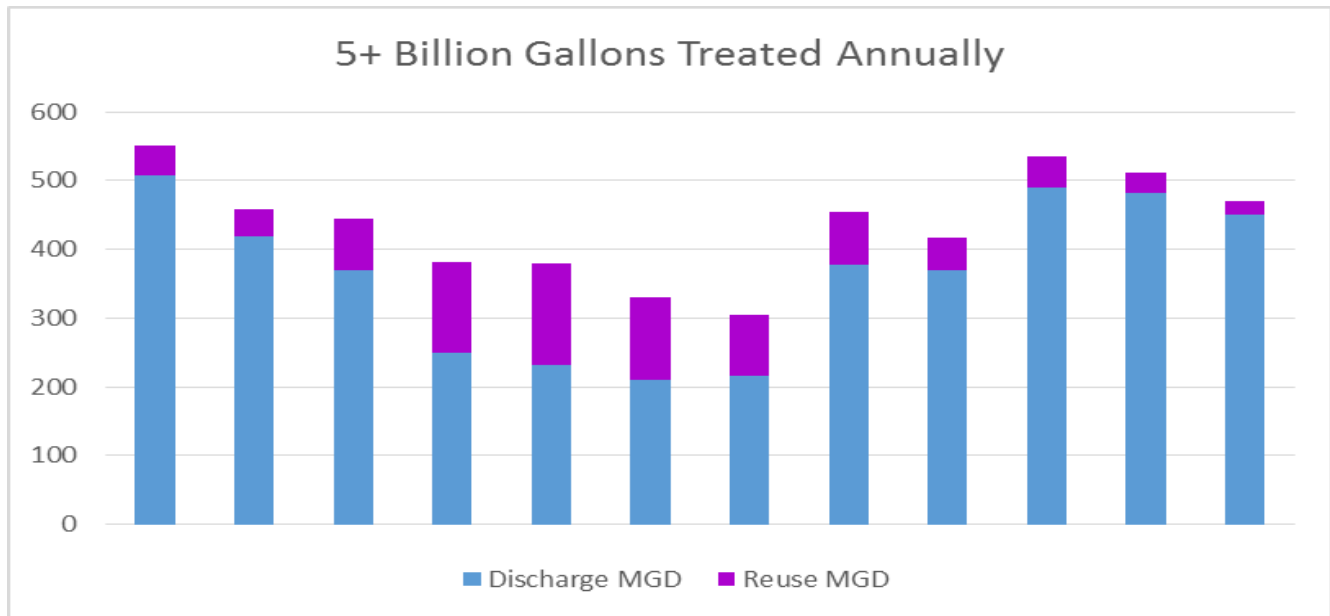
- Engage Citizens concerning the value of Reuse water & the concept of “Direct to Potable.”
- Install two irrigation units at the Coleman and Jordan farms.

KEY PERFORMANCE MEASURES

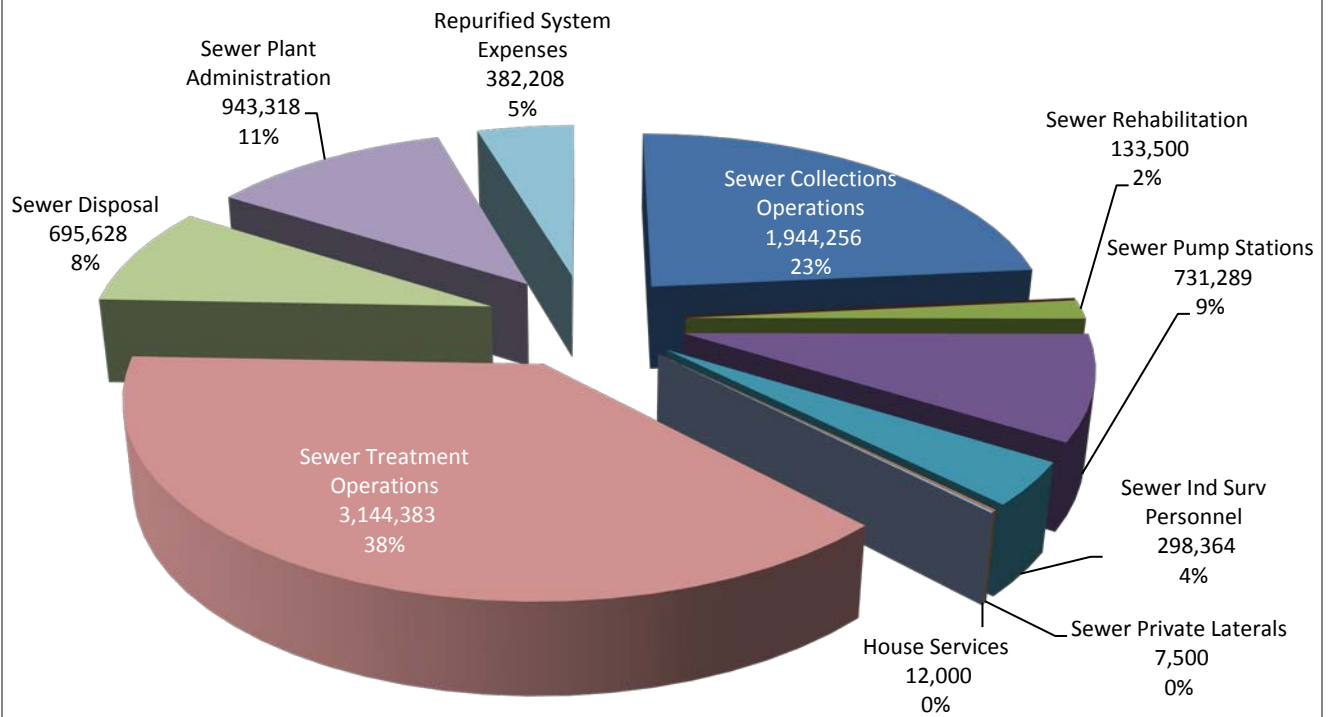


FY 2017

- 1,000+ Trips to the Landfill
- 20,000+ Tons of Biosolids Hauled
- Another – ACCIDENT FREE - year



Sewer Division Operating Expenses



DEBT SERVICE (CAPITAL OUTLAY)

The Debt Service or Capital Outlay budget is based on the Debt Policy approved by the Murfreesboro Water Resources Board in December 2011. Principal and interest on Department debt is funded from revenues received for services provided. It is backed by the full faith, credit and taxing power of the City.

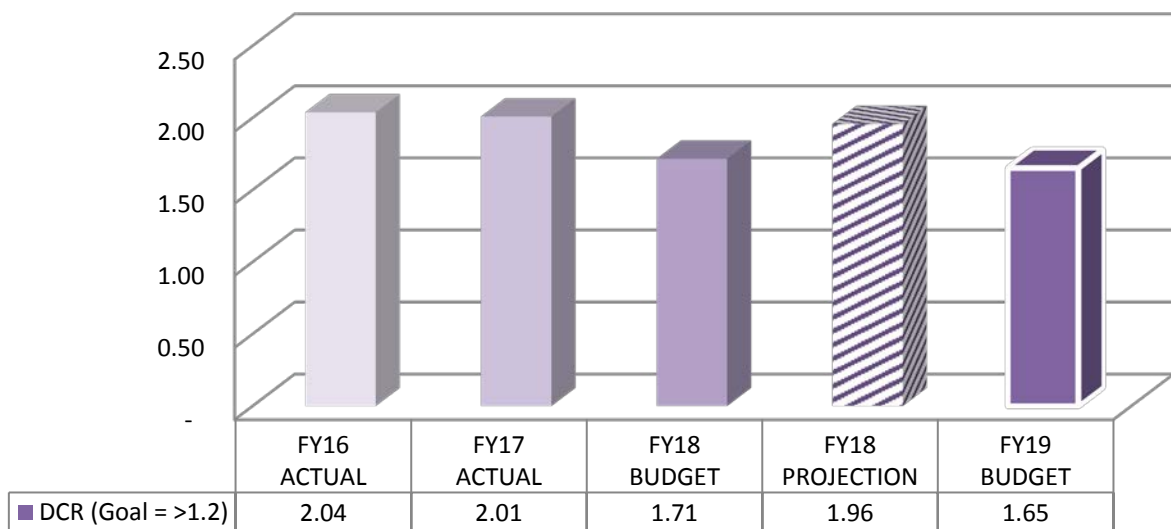
Murfreesboro has two outstanding loans issued through the variable rate debt program managed by the Tennessee Municipal Bond Fund (Loan IDs 50279 and 50368). The two remaining variable rate obligations total approximately \$26 million and represent twenty-three percent (23%) of the Department's current outstanding debt.

The Department entered into three Clean Water, State Revolving Fund (SRF) Loan agreements in the fall of 2012 (see table below). Loans 2012-306, 2013-317 and 2012-303 total \$37 million in proceeds. Debt forgiveness on the loans totals \$2.87 million, resulting in a maximum of \$34.13 million in debt. Interest is at 1.01%. Final loan proceeds were approximately \$24.2 million. All three (3) loans are amortized with an annual debt service of \$1.87 million over 20 years.

On October 9, 2014 the Department was awarded \$4,000,000 and \$32,500,000 SRF loans for the expansion of the Sinking Creek Wastewater Treatment Plant from 16.0 MGD to 24.0 MGD (see table below). The loans are 20-year term with a fixed interest rate of 1.38%. The \$4 million loan has been fully drawn, with annual debt service of \$225K over 20 years. The \$32.5 M loan was amortized in November 2017, with an annual debt service of \$1.8 M. Final loan draws will determine the final debt service amounts.

One of MWRD's financial policies is to maintain a Debt Coverage Ratio (funds available for debt coverage divided by capital outlay) of 1.2 or greater. The following graph is a summary of MWRD's FY19 Debt Coverage Ratio summary:

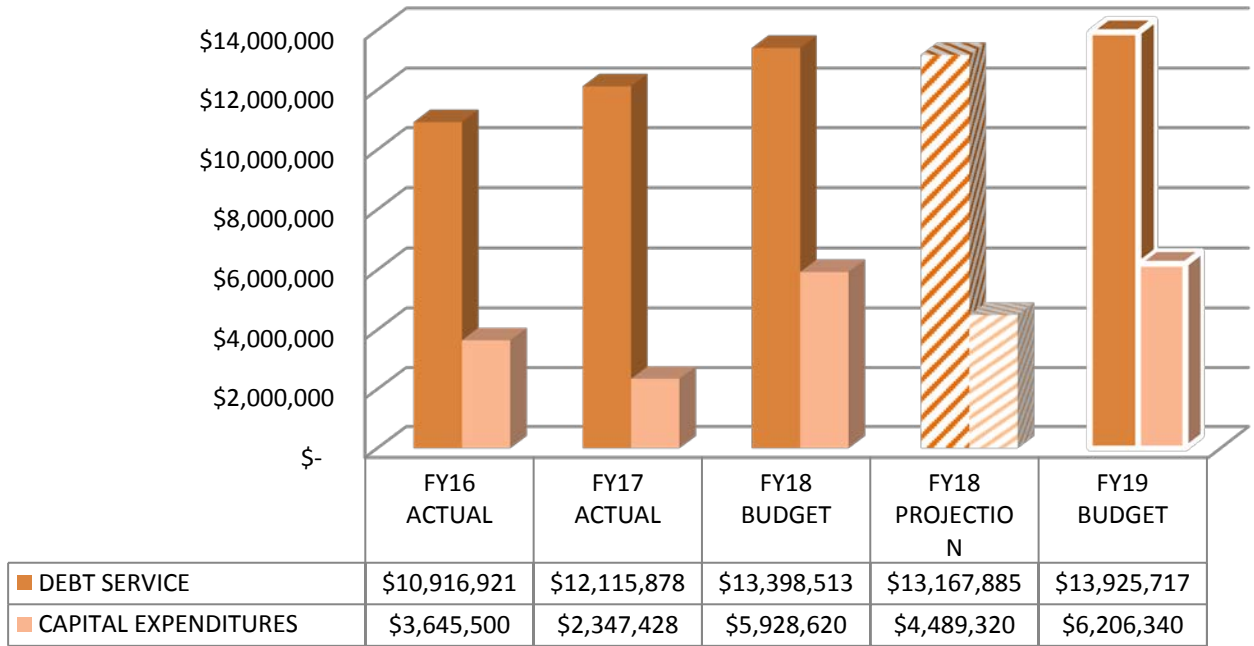
DEBT COVERAGE RATIO



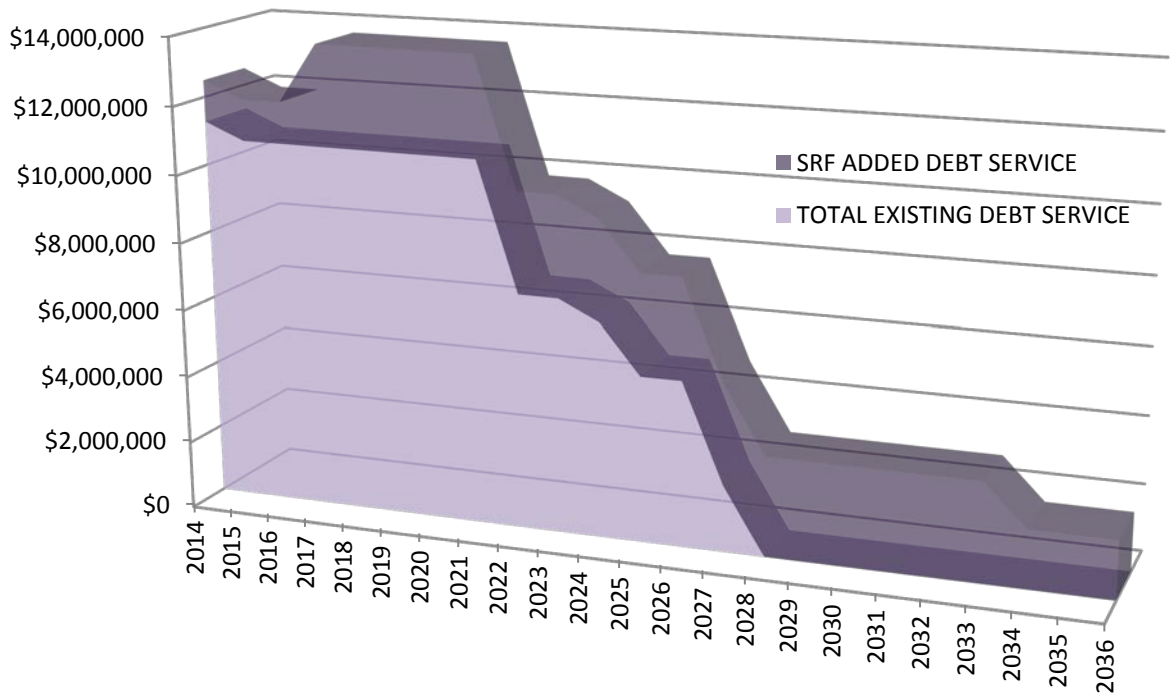
Summary of FY19 Capital Outlays:

MURFREESBORO WATER RESOURCES DEPARTMENT							
FY19 BUDGET							
	FY18						FY19 BUD vs FY18 PROJ
DEBT SERVICE	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	PROJECTION	FY19 BUDGET		
BOND DEBT SERVICE	28,793	36,000	30,000	-	-		-
							-
INTEREST EXP TMBF 2003	32,098	48,352	50,000	61,000	75,000		14,000
INTEREST EXP TML 2006	370,379	370,379	400,000	500,000	650,000		150,000
INTEREST EXP 2009 REFUND	1,157,400	355,250	242,250	242,250	123,750		(118,500)
INTEREST EXP 2013 REFUNDING	284,991	238,663	192,439	192,439	145,279		(47,160)
INTEREST EXP 2016 REFUNDING		641,061	662,000	662,000	657,000		(5,000)
INTEREST SRF 2012-303 PS	62,063	72,233	69,804	68,292	64,836		(3,456)
INTEREST SRF 2013-317 FM	34,632	32,940	31,248	31,248	29,544		(1,704)
INTEREST SRF 2012-306 HW	154,609	181,781	213,204	118,596	112,584		(6,012)
INTEREST SRF 2016 4D #1	27,348	52,860	50,412	50,412	47,904		(2,508)
INTEREST SRF 2016 4D #2	21,604	205,237	388,000	415,652	426,228		10,576
							-
PRINCIPAL TML 2003	442,000	456,000	471,000	471,000	486,000		15,000
PRINCIPAL TML SERIES 2006	1,879,000	1,963,000	2,051,000	2,051,000	2,144,000		93,000
REVENUE AND TAX BOND 2009	2,195,000	2,260,000	2,370,000	2,370,000	2,475,000		105,000
PRINCIPAL 2013 REFUNDING	3,510,000	3,555,000	3,600,000	3,600,000	3,650,000		50,000
PRINCIPAL 2016 REFUNDING		100,000	100,000	100,000	100,000		-
PRINCIPAL SRF 2012-303 PUMP ST	114,368	342,510	348,468	340,932	344,112		3,180
PRINCIPAL SRF 2013-317 FORCE MN	165,444	166,992	168,552	168,552	170,124		1,572
PRINCIPAL SRF 2012-306 HEADWORKS	349,340	860,188	1,064,388	591,972	597,504		5,532
PRINCIPAL SRF 2016 4D #1	87,852	177,432	179,748	179,748	182,100		2,352
PRINCIPAL SRF 2016 4D #2		-	716,000	952,792	1,444,752		491,960
	-	-					-
DEBT SERVICE	10,916,921	12,115,878	13,398,513	13,167,885	13,925,717		757,832

CAPITAL OUTLAY (DEBT SERVICE) & CAPITAL EXPENDITURES

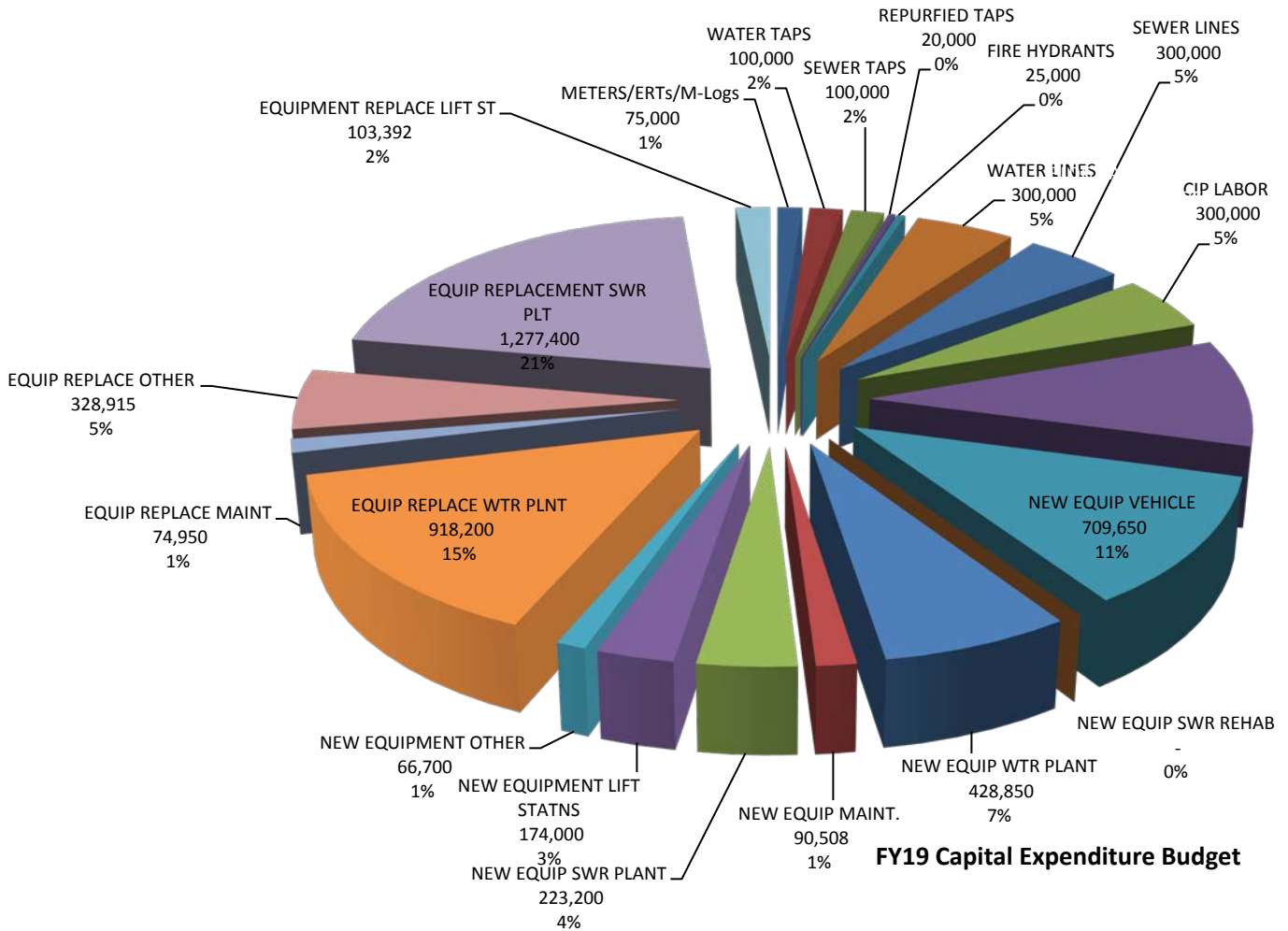


MWSD Annual Debt Service Existing and SRF Added



RATE FUNDED CAPITAL EXPENDITURES

Rate Funded Capital Expenditures are infrastructure and equipment that is funded from the user rates. It includes vehicles replacement, treatment equipment, water meters, fire hydrants, and allowances for water, sewer and sewer rehabilitation projects constructed with Department crews. The goal is to annually fund over \$5.0M in Rate Funded Capital Expenditures.



WORKING CAPITAL RESERVES

Working Capital is Department cash available to fund Department projects less any secured cash reserves and after obligations in various work orders.

MWRD is projecting \$38.74M in Operating Cash available to pay for capital projects as of February 27, 2017. "Available" funds are those funds designated above that has been committed to current or pending projects and above the secured twelve (12) month minimum balance of operating and maintenance expenses.

EFFECTIVE UTILITY MANAGEMENT

Financial Viability

MWRD WORKING CAPITAL ACCOUNT SUMMARY

ESTIMATED Working Capital at 2/28/17

Board Designated (System Dev, Assessments, etc.) as of 6/30/17	\$ 29,591,186
Undesignated Excess Funds as of 6/30/17	38,990,326
Estimated Reserve Revenue thru 2/28/18	5,365,000
Estimated Reserve Expenditures thru 2/28/18	(2,738,447)
	<hr/>
	\$ 71,208,065

COMMITTED Reserves at 2/27/18 **\$ 10,182,702**

BALANCE of Working Capital after COMMITMENTS **\$ 61,025,363**

DESIGNATED Projects Pending **\$ 850,000**

ESTIMATED UNCOMMITTED Working Capital Reserves **\$ 60,175,363**

SECURED FY17-18 Operating and Maintenance Expenses **\$ 22,319,242**

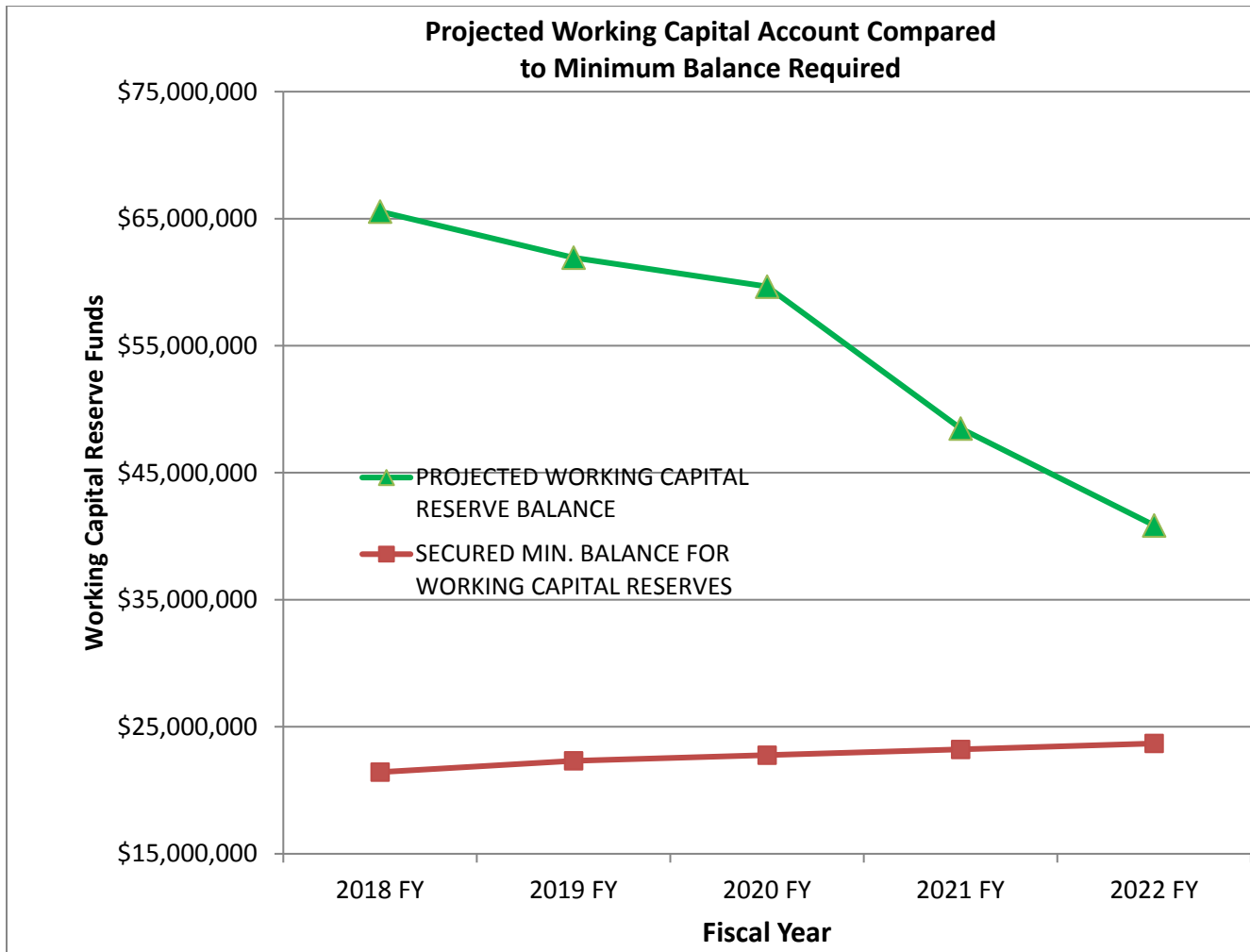
UNASSIGNED Working Capital Funds (Est. Uncommitted - Secured) **\$ 37,056,121**

Outstanding commitments in work orders approved by the Board and Council to be funded from obligations of existing Secured Cash in the amount of approximately \$10.18M.

The Board adopted a policy to keep an equivalent of one year operating expense as a restricted reserve. For FY19 this minimum balance will be \$22,319,242 million. This results in an estimated \$37,056,121 in available cash (working capital) for future projects to be funded. The following table shows a pro forma forecast of the available working capital fund through FY22 based on projected tap revenue, sinking fund revenue from rates, enhanced AMI revenue and anticipated projects funded with cash on hand (i.e., working capital reserves).

SECURED AND OPERATING CASH

	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
	2018 FY	2019 FY	2020 FY	2021 FY	2022 FY
PROJECTED RESERVE FUND BALANCE REVENUE (TAPS)	\$7,200,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
SINKING FUND DEPOSITS TO RESERVES FROM RATES	\$1,765,000	\$1,375,000	\$1,375,000	\$1,375,000	\$1,375,000
SECURED MIN. BALANCE FOR WORKING CAPITAL RESERVES	\$21,431,119	\$22,319,242	\$22,765,627	\$23,220,939	\$23,685,358
PROJECTED WORKING CAPITAL RESERVE BALANCE	\$65,562,313	\$61,932,313	\$59,657,313	\$48,482,313	\$40,857,313
FUNDS ABOVE SECURED MINIMUM BALANCE	\$44,131,194	\$39,613,071	\$36,891,686	\$25,261,374	\$17,171,955



The following table itemizes the capital projects anticipated to be funded with the Department's working capital reserves (i.e., cash on hand).

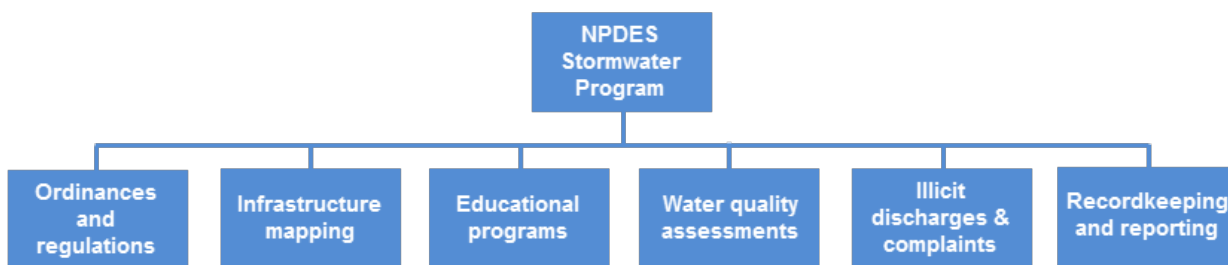
PROJECT	2017-2018 2018 FY	2018-2019 2019 FY	2019-2020 2020 FY	2020-2021 2021 FY	2021-2022 2022 FY	TOTAL
W&S CAPITAL IMPROVEMENT PROJECTS						
Misc FY18 Working Reserve Commitments	\$950,000					\$950,000
Customer Service Area Security Renovations	\$250,000	\$800,000				\$1,050,000
NE Regional Engineering Design	\$1,250,000	\$500,000	\$250,000	\$250,000	\$250,000	\$2,500,000
NE Regional P.S.				\$5,000,000	\$5,000,000	\$10,000,000
NE Regional Force Main				\$5,000,000	\$5,000,000	\$10,000,000
MWRRF Wet Weather Treatment Train Impr			\$3,000,000	\$3,000,000		\$6,000,000
Walter Hill Dam Repair/Remediation				\$500,000	\$500,000	\$1,000,000
Lift Station Rehab/Replacement (#9) Ransom Dr.		\$850,000				\$850,000
Add #4 Hi Service Pump SRWTP		\$680,000				\$680,000
Mill Street Tank Painting		\$1,500,000				\$1,500,000
WTP Membrane Replacement			\$650,000			\$650,000
Biosolids Processing Equipment & Storage Addition	\$750,000			\$2,000,000	\$2,000,000	\$4,750,000
Direct Potable Reuse Demonstration			\$150,000	\$350,000		\$500,000
Stones River Water Qual Sampling / NPDES Permitting	\$500,000	\$150,000	\$150,000	\$150,000	\$150,000	\$1,100,000
WTP Bar Screen, Pipe Gallery Leaks, Actuator Access	\$1,550,000					\$1,550,000
Subtotal CAPITAL PROJECTS	\$5,250,000	\$4,480,000	\$4,200,000	\$16,250,000	\$12,900,000	\$43,080,000
TRANSPORTATION (Water/Sewer Imp.)						
Bradyville Pike	\$500,000	\$500,000	\$500,000			\$1,500,000
Jones Blvd Widening	\$50,000	\$500,000	\$500,000			\$1,050,000
Lytle St. Relocation (Ph1 & Ph2)	\$750,000					\$750,000
SR 99 Widening- Old Fort to Cason Lane	\$500,000	\$500,000	\$500,000			\$1,500,000
St. Clair St.		\$500,000				\$500,000
John Rice Blvd & Rucker Lane		\$200,000				\$200,000
Cherry Lane Repurified Main Extension (14,600 LF)		\$825,000	\$1,000,000			\$1,825,000
Maney Avenue Reconstruction - Phase 2	\$250,000	\$250,000				\$500,000
Wilkinson Pike Reconstruction (MCP to TL)	\$650,000					\$650,000
Subtotal TRANSPORTATION PROJECTS	\$2,700,000	\$3,275,000	\$2,500,000	\$0	\$0	\$8,475,000
REHABILITATION						
Sewer Rehabilitation - Maintenance Contract	\$2,250,000	\$1,500,000	\$1,000,000	\$1,000,000	\$1,000,000	\$6,750,000
INFORMATION TECHNOLOGY PROJECTS						
IT/Computer Systems Hardware Upgrades	\$50,000	\$100,000	\$100,000	\$100,000	\$100,000	\$450,000
Electronic Content Management (Scanning/Imaging)	\$150,000	\$150,000	\$150,000	\$150,000		\$600,000
IT Design Services & Consulting	\$100,000	\$100,000	\$100,000	\$50,000		\$350,000
Comp Maintenance Management System (CMMS)		\$400,000	\$600,000			\$1,000,000
Subtotal INFORMATION TECHNOLOGY PROJECTS	\$300,000	\$750,000	\$950,000	\$300,000	\$100,000	\$2,400,000
TOTAL Projects from Working Capital Reserves	\$10,500,000	\$10,005,000	\$8,650,000	\$17,550,000	\$14,000,000	\$60,705,000

STORMWATER

DEPARTMENT SUMMARY

The NPDES Stormwater Program refers to aspects of stormwater management required under a Federally-mandated and State-issued National Pollutant Discharge Elimination System (NPDES) permit for the discharge of stormwater runoff from the municipal separate storm sewer system (MS4). The goal of the program is clean stormwater runoff discharged to local streams. This is accomplished through education of residents and business operators in pollution prevention, through good management of city operations, and through ordinances and requirements designed to prevent or capture pollutants in stormwater runoff both during and after construction in areas of new development and redevelopment.

ORGANIZATIONAL CHART



IMPLEMENTATION OF COUNCIL PRIORITIES SAFE AND LIVABLE NEIGHBORHOODS

- Promote green infrastructure (vegetation) as part of stormwater quality management practices
- Educate the public on stormwater pollution prevention (oils, litter, herbicides, pet waste)
- Monitor, and develop strategies to improve, water quality of local streams

STRONG AND SUSTAINABLE FINANCIAL AND ECONOMIC HEALTH

- Stormwater quality standards that encourage practicable and long-term reliable stormwater management designs

EXCELLENT SERVICES WITH A FOCUS ON CUSTOMER SERVICE

- Clearly stated ordinances and standards
- Clear and understandable forms and submittal requirements for development projects
- Prompt response and resolution of complaints
- City TV and on-line web videos that provide news and education on stormwater programs

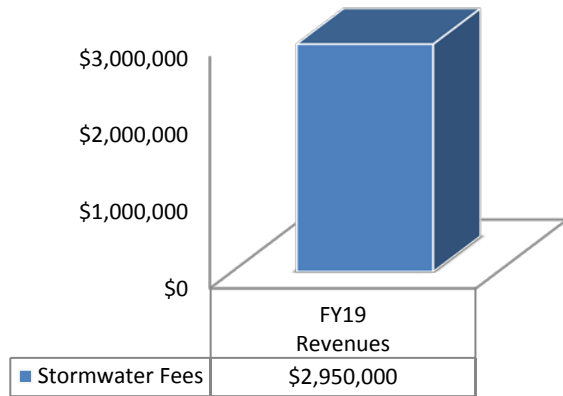
FY 2018 ACCOMPLISHMENTS

- Educated 300+ residents living on streams in the East Fork Stones River watershed about the importance of streamside buffers through mailing; and distributed 800 tree seedlings to residents in the East Fork Stones River watershed at 10th annual Tree Day event
- With Communications Department produced six-minute TV spot, *Garrison Creek: 5 years Later*
- Began the *Our Streams* webpages, devoted to teaching and learning about our streams
- Established an inspection program of post-construction stormwater control measures (SCMs)
- Created pollution reduction dashboards for each impaired stream, to be updated annually. The dashboards briefly describe watershed characteristics and efforts toward pollutant reduction.
- Screened and assessed 11.1 miles of the East and West Forks of the Stones River. Located erosion sites, recorded illicit discharges, and general water chemistry.
- Quantified the benefit of riparian zones through biological sampling (see benthic results - Garrison Creek)
- Sampled e-coli bacteria in impaired stream segments, calculated bacteriological geomean with flow measurements, per NPDES permit requirements
- Organized second biennial SQSH benthic sampling in streams within Murfreesboro, to gage the effectiveness of stormwater BMP's

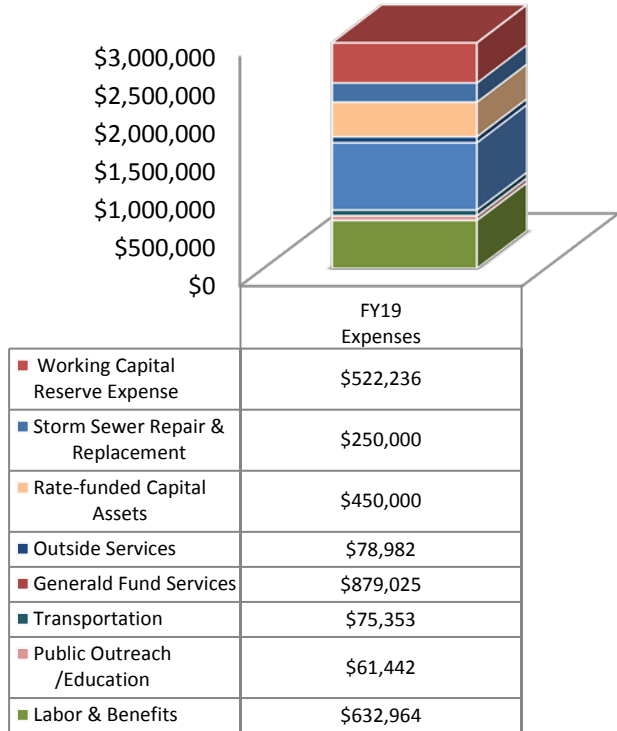
FY 2019 DEPARTMENT GOALS

- Update Stormwater ordinance to add green infrastructure option for any sized development
- Enforcement Response Policy per State permit requirement to 100% complete
- Stormwater management plan (SWMP) to 75% complete
- West Fork Stones River bank stabilization at Cason Trail
- Develop hydrology story map on web that features flow data and videos.
- Create check list for assessing the value of hydrologic features on undeveloped land
- Outfall sampling during storm events
- Work with street to construct SCM at Overall Street and Maney Street
- Visual stream assessment on Lytle Creek
- Update pollution reduction dashboards
- Work with HOAs to get WQPA signage along buffers
- Do imperviousness trend analysis on all watersheds
- Continue to strive toward removing streams from the 303d list.

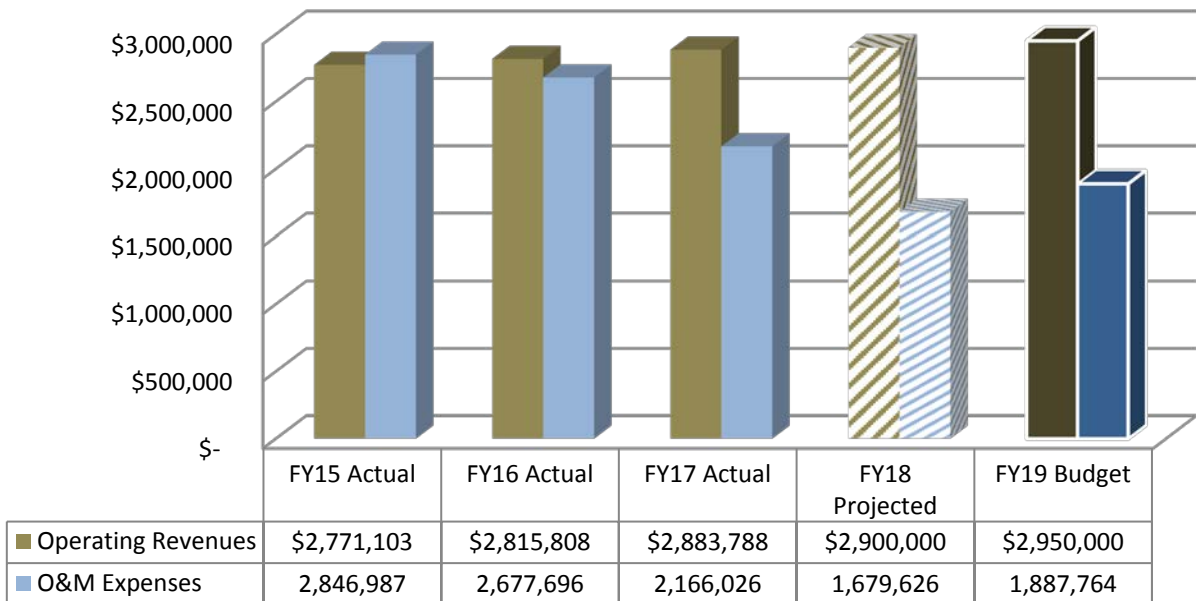
Total FY19 Revenues, \$2.95M



Total FY19 Expenses, \$2.95M



Stormwater Revenues & Expenses



PROPOSED BUDGET STORMWATER

FY19 Budget

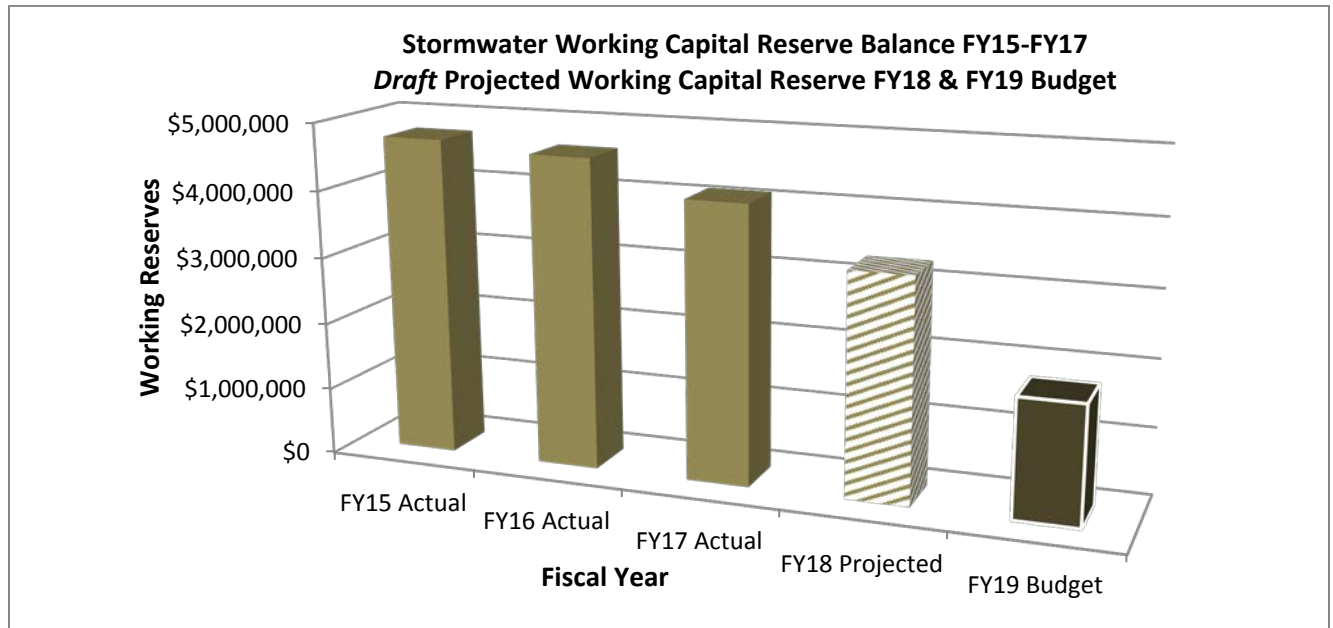
FY18 Projected, FY20-FY22 Pro Forma

	FY18 Projected	FY19 Budget	FY20 Pro Forma	FY21 Pro Forma	FY22 Pro Forma
REVENUE					
Stormwater Fees	\$2,900,000	\$2,950,000	\$3,000,000	\$3,050,000	\$3,100,000
EXPENDITURES					
Labor	\$417,564	\$470,091	\$484,193	\$498,719	\$513,681
Taxes/Benefits	\$196,964	\$222,873	\$229,559	\$236,446	\$243,539
City Reimbursement - Engineering	\$442,900	\$456,187	\$469,873	\$483,969	\$498,488
City Reimbursement - Legal	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
City Reimbursement - Street Dept.	\$386,250	\$497,838	\$512,773	\$528,156	\$544,000
City Reimbursement - Other	\$0	\$0	\$0	\$0	\$0
Consulting Services - MTSU	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Consulting - Other	\$28,138	\$28,982	\$29,851	\$30,747	\$31,669
Transportation	\$73,158	\$75,353	\$77,613	\$79,942	\$82,340
Public Outreach/Adv	\$19,134	\$19,708	\$20,299	\$20,908	\$21,535
Other Expenses	\$40,518	\$41,734	\$42,986	\$44,275	\$45,604
Total Operating Expenses	\$1,679,626	\$1,887,764	\$1,942,147	\$1,998,162	\$2,055,857
Rate-funded Capital Assets	\$445,100	\$450,000	\$215,000	\$425,000	\$350,000
Storm Sewer Repair & Replacement	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
TOTAL EXPENDITURES	\$2,374,726	\$2,587,764	\$2,407,147	\$2,673,162	\$2,655,857
EXCESS REVENUES	\$525,274	\$362,236	\$592,853	\$376,838	\$444,143
WORKING CAPITAL RESERVES					
Beginning Balance	\$4,046,505	\$3,296,779	\$1,759,015	\$1,426,867	\$1,278,706
Additions	\$525,274	\$362,236	\$592,853	\$376,838	\$444,143
Deductions - CIP	-\$1,275,000	-\$1,900,000	-\$925,000	-\$525,000	-\$500,000
Deductions - Participation	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$3,296,779	\$1,759,015	\$1,426,867	\$1,278,706	\$1,222,849
3 mos Reserved Operating Expenses	\$419,906	\$471,941	\$485,537	\$499,540	\$513,964

CAPITAL IMPROVEMENTS – STORMWATER

Preliminary Draft 5-YR CAPITAL IMPROVEMENTS PLAN (CIP) STORMWATER UTILITY FUND, FY18-22

NO.	PROJECT	Originator	2017-2018 2018 FY	2018-2019 2019 FY	2019-2020 2020 FY	2020-2021 2021 FY	2021-2022 2022 FY	TOTAL
			<i>Projected</i>	<i>Budget</i>	<i>Pro Forma</i>	<i>Pro Forma</i>		
	Neighborhood Projects (NP)							
NP-1	Memorial Blvd / Haynes Dr. Drainage Improvements	City Eng	\$25,000	\$50,000	\$50,000	\$50,000		\$175,000
NP-2	Mitchell-Nielson Drainage Project	City Eng		\$50,000	\$50,000			\$100,000
NP-3	Huntwood/Leaf Ave Neighborhood Drainage Imp.	City Eng	\$100,000	\$100,000				\$200,000
NP-4	Southern Meadows / Kimbro Woods Drainage Imp.	City Eng	\$200,000	\$250,000				\$450,000
NP-5	Liberty Dr. / Thatcher Trace Spring Box	City Eng		\$25,000	\$50,000	\$50,000		\$125,000
NP-6	Pennington Drive Drainage Repair/Upgrade (Added)	City Eng						\$0
NP-7	Gateway Pond Repair (Added)	Eng/MWSD						\$0
NP-8	Hardwood Drive Drainage Upgrade (Added)	City Eng		\$250,000				\$250,000
NP-9	Pacific Place/Riverrock Blvd Drainage Imp.	City Eng		\$200,000	\$150,000			\$350,000
	Subtotal		\$325,000	\$925,000	\$300,000	\$100,000		\$1,650,000
	Water Quality Improvement (Compliance) Projects (WQ)							\$0
WQ-1	Town Creek Bioretention BMP's @ Cannonsburgh	MWSD	\$75,000					\$75,000
WQ-2	Molloy Lane Water Quality Pond	MWSD		\$100,000	\$100,000			\$200,000
WQ-3	Rosebank Springs Constructed Wetlands	City Eng	\$150,000	\$150,000				\$350,000
WQ-4	Lee's Branch Stream Restoration	City Eng	\$50,000	\$50,000	\$50,000	\$50,000		\$225,000
WQ-5	West Fork Stones River at Cason Trail; bank repair	MWSD	\$100,000	\$50,000				\$150,000
WQ-6	Bear Branch Water Quality Mitigation	City Eng	\$50,000	\$50,000	\$50,000	\$50,000		\$200,000
WQ-7	Sinking Creek Headwater protection BMP	City Eng		\$150,000	\$150,000	\$100,000		\$400,000
WQ-8	Todd's Lake Regional Wetlands Improvements	City Eng	\$50,000	\$50,000	\$50,000			\$150,000
WQ-9	Hooper's Bottom Regional Water Quality Project	City Eng	\$75,000	\$150,000	\$150,000	\$150,000		\$550,000
WQ-10	Lytle Creek/Ridgley Road Bacteriological Reduction (Added)	MWSD		\$50,000				\$50,000
WQ-11	Memorial Blvd/VA Pond Trash Rack (Added)	MWSD		\$50,000				\$50,000
WQ-12	Spence Creek Restoration	Eng/MWSD	\$25,000	\$25,000	\$25,000	\$25,000		\$200,000
	Subtotal		\$575,000	\$875,000	\$575,000	\$375,000		\$2,600,000
	Public Drainage/Streets Participation Projects (PD)							\$0
PD-1	Maney Avenue Phase 2	City Eng	\$50,000	\$50,000				\$100,000
PD-2	Town Creek Conveyance (Murfree Springs to Cannonsburgh)	City Eng	\$250,000	\$50,000	\$50,000	\$50,000	\$500,000	\$1,700,000
PD-3	Maple St. Alley Permeable Paver Project	City Eng	\$75,000					\$125,000
	Subtotal		\$375,000	\$100,000	\$50,000	\$50,000	\$500,000	\$1,925,000
	Totals		\$ 1,275,000	\$ 1,900,000	\$ 925,000	\$ 525,000	\$ 500,000	\$ 6,175,000



APPENDICES

SYSTEM INFRASTRUCTURE REPORT 4/30/18

The following are totals of System features whose locations have been collected with GPS and moved to their correct location in GIS.

Water Distribution System

Feature	Count	# GPS Located	% Located
Meters	26,948	26,919	99.9%
MWSD Hydrants	3,461	3,461	100%
Valves	9,539	9,230	96.8%
Blowoffs	489	458	93.7%
CUD Hydrants	2,590	2,590	100%
CUD Hydrant Valves	2,570	2,570	100%
Totals	45,597	45,228	99.2%

Water Line Footage: 443.10 miles

Most of the water lines are 8" or greater (335.09 mi. or 75.6%) and the majority are made of PVC or Ductile Iron (326.43 mi. or 73.7%) Water Service Area = 35.54 mi²

Sewer Collection System

Feature	Count	# GPS Located	% Located
Manholes	15,286	15,250	99.8%
Pump Stations	44	44	100.0%
Cleanouts	37,653	30,350	80.6%
Industrial Monitors	21	20	95.2%
Totals	53,004	45,664	86.2%

Gravity Sewer Footage: 624.44 miles

Force Main Footage: 34.29 miles

Most of the gravity sewer lines are 8" or greater (621.97 mi. or 99.6%) and are made of PVC or Ductile Iron (542.12 mi. or 86.8%)

Repurified Water System

Feature	Count	# GPS Located	% Located
Valves	271	270	99.6%
Meters	166	166	100%
Totals	437	436	99.8%
Repurified Water Line Footage: 25.86 miles			

Storm-Water Collection System

Feature	Count	# GPS Located	% Located
Junction Boxes	15,461	15,295	98.9%
Headwalls / Wingwalls	6,503	6,414	98.6%
Discharge Points	646	608	94.1%
Detention Basins	460	430	93.5%
Totals	23,070	22,747	98.6%
Storm Water Collection Footage: 677.5 miles and consists of 344.23 miles of Conduit flow; 327.48 miles of Open Channel flow; and 5.79 miles of Culvert flow			

General Totals for the Past Month (April)

48– Construction Plans/Plats/DVDs submitted for approval (New Plans & Revisions)

3 – ACA's sent (construction project finalized)

FY19 RATE-FUNDED CAPITAL DETAILS

**Murfreesboro Water and Sewer / Stormwater
Capital Budget 2018-2019**

Description		TOTALS WRD	TOTALS SW
O&M	Meters	\$75,000	
O&M	Water Taps	\$100,000	
O&M	Sewer Taps	\$100,000	
O&M	Repurified Water Taps	\$20,000	
O&M	Fire Hydrants	\$25,000	
O&M	Water Lines	\$300,000	
O&M	Sewer Lines	\$300,000	
O&M	CIP Labor	\$300,000	
	SUBTOTAL: STRUCTURES & IMPROVEMENTS	\$1,220,000	
	Structures & Improvements		
ENGR	ENG - Structures & Improvements Total	\$6,670	
O&M	O&M Water - Structures & Improvements Total	\$56,000	
O&M	O&M Sewer - Structures & Improvements Total	\$5,000	
O&M	AMI - Structures & Improvements Total	\$905	
WTP	WTP - Structures & Improvements Total	\$285,000	
WWTP	WRRF - Structures & Improvements Total	\$129,000	
SW	SW - Structures & Improvements Total		\$3,330
	SUBTOTAL: STRUCTURES & IMPROVEMENTS	\$482,575	\$3,330
	Land Improvements		
O&M	O&M Water - Land Improvements Total	\$8,000	
O&M	O&M Sewer - Land Improvements Total	\$10,000	
WTP	WTP - Land Improvements Total	\$87,000	
WWTP	WRRF - Land Improvements Total	\$3,000	
	SUBTOTAL: LAND IMPROVEMENTS	\$108,000	\$0
	Lab Equipment		
WTP	WTP - Lab Equipment New Total	\$1,250	
WTP	WTP - Lab Equipment Replacement Total	\$13,100	
WWTP	WRRF - Lab Equipment New Total	\$6,000	
WWTP	WRRF - Lab Equipment Replacement Total	\$26,000	
	SUBTOTAL: LAB EQUIPMENT	\$46,350	\$0

Description		TOTALS WRD	TOTALS SW
	Office Furniture & Equipment		
ADMIN	ADMIN - Office Furniture New Total	\$5,000	
ENGR	ENG- Office Furniture New Total	\$1,500	
ENGR	ENG- Office Furniture Replacement Total	\$10,515	
O&M	O&M Water - Office Furniture Replacement Total	\$16,500	
O&M	O&M Sewer - Office Furniture New Total	\$7,000	
WTP	WTP - Office Furniture New Total	\$2,700	
WTP	WTP - Office Furniture Replacement Total	\$18,500	
WWTP	WRRF - Office Furniture & Equipment New Total	\$7,500	
SW	SW - Office Furniture New Total		\$1,500
SW	SW - Office Furniture Replacement Total		\$7,165
	SUBTOTAL: OFFICE FURNITURE & EQUIPMENT	\$69,215	\$8,665
	Computer Equipment		
ADMIN	ADMIN - Computer Equipment New Total	\$1,500	
ADMIN	ADMIN - Computer Equipment Replacement Total	\$2,000	
C/S	CS - Computer Equipment Replacement Total	\$9,000	
ENGR	ENG - Computer Equipment New Total	\$2,100	
ENGR	ENG - Computer Equipment Replacement Total	\$6,000	
AMI	AMI - Computer Equipment Replacement Total	\$1,500	
O&M	O&M Water - Computer Equipment Replacement Total	\$13,500	
WTP	WTP - Computer Equipment Replacement Total	\$52,500	
WWTP	WRRF - Computer Equipment New Total	\$1,400	
WWTP	WRRF - Computer Equipment Replacement Total	\$70,500	
SW	SW - Computer Equipment New Total		\$2,100
	SUBTOTAL: COMPUTER EQUIPMENT	\$160,000	\$2,100
	Software		
ADMIN	ADMIN - Software (Adobe)	\$2,300	
C/S	C/S - CIS Update Software - Total	\$300,000	
O&M	O&M Water - Software New Total	\$600	
WTP	WTP - Software New Total	\$8,000	
	SUBTOTAL: NEW EQUIPMENT LIFT STATIONS	\$310,900	\$0
	Vehicles		
AMI	AMI - Replacement Vehicle Total	\$35,000	
ENGR	ENG - New Vehicle Total	\$30,000	
O&M	O&M Water - Replacement Vehicles Total	\$255,650	
O&M	O&M Sewer - New Vehicles Total	\$72,000	

Description		TOTALS WRD	TOTALS SW
O&M	O&M Sewer - Replacement Vehicles Total	\$35,000	
WTP	WTP - Vehicles New Total	\$92,000	
WTP	WTP - Vehicles Replacement Total	\$77,000	
WWTP	WRRF - Vehicles New Total	\$53,000	
WWTP	WRRF - Vehicles Replacement Total	\$60,000	
SW	SW (ENG) - New Truck for Newly Funded SW Inspector		\$30,000
SW	SW (O&M) - Replace 2008 Vac Truck (Unit #89)		\$375,000
	SUBTOTAL: VEHICLES	\$709,650	\$405,000
	Equipment (Including Large Tools)		
ENGR	ENG - Equipment & Tools New Total	\$4,300	
ENGR	ENG - Equipment & Tools Replacement Total	\$1,400	
AMI	AMI - Equipment and Large Tools New Total	\$27,283	
O&M	O&M Water - Equipment & Tools New Total	\$36,125	
O&M	O&M Water - Equipment & Tools Replacement Total	\$18,250	
O&M	O&M Sewer - Equipment & Tools New Total	\$15,500	
O&M	O&M Sewer - Equipment & Tools Replacement Total	\$25,200	
O&M	O&M Lift Stations - Equipment & Tools New Total	\$174,000	
O&M	O&M Lift Stations - Equipment & Tools Replacement Total	\$103,392	
WTP	WTP - Equipment & Tools New Total	\$416,900	
WTP	WTP - Equipment & Tools Replacement Total	\$834,100	
WWTP	WRRF - Equipment & Tools New Total	\$208,300	
WWTP	WRRF - Equipment & Tools Replacement Total	\$1,180,900	
SW	SW - Equipment & Tools New Total		\$3,500
SW	SW - Equipment & Tools Replacement Total		\$1,000
	SUBTOTAL: EQUIPMENT & LARGE TOOLS	\$3,045,650	\$4,500
	Communication Equipment		
ADMIN	ADMIN - New Phone System	\$50,000	
AMI	AMI - Communication Equipment Total	\$4,000	
	SUBTOTAL: COMMUNICATION EQUIPMENT	\$54,000	\$0
	TOTAL CAPITAL WATER RESOURCES w/ CONTINGENCY:	\$6,206,340	\$423,595

DETAILED BUDGET ITEMIZATION

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

	FY18				
	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	PROJECTION	FY19 BUDGET
REVENUES					
WATER, OPERATING REVENUE	\$ 15,364,876	\$ 16,002,500	\$ 16,616,000	\$ 16,415,000	\$ 16,641,000
REPURIFIED, OPERATING REVENUE	\$ 28,723	\$ 27,400	\$ 29,000	\$ 29,000	\$ 29,000
SEWER, OPERATING REVENUE	\$ 26,262,131	\$ 27,243,200	\$ 27,144,000	\$ 27,854,000	\$ 28,328,000
OTHER INCOME AND EXPENSE	\$ 552,120	\$ 571,054	\$ 620,000	\$ 340,000	\$ 310,000
TOTAL OPERATING REVENUES	\$ 42,207,850	\$ 43,844,154	\$ 44,409,000	\$ 44,638,000	\$ 45,308,000
INTEREST INCOME OTHER INVEST.	\$ 39,996	\$ 45,000	\$ 55,000	\$ 70,000	\$ 70,000
TAP REVENUE	\$ 10,197,000	\$ 7,022,200	\$ 6,700,000	\$ 7,950,000	\$ 7,200,000
TOTAL REVENUES	\$ 52,444,846	\$ 50,911,354	\$ 51,164,000	\$ 52,658,000	\$ 52,578,000
EXPENSES					
WATER, OPERATING & MAINTENANCE	\$ 6,384,829	\$ 6,282,806	\$ 6,588,059	\$ 5,914,570	\$ 7,039,607
SEWER, OPERATING & MAINTENANCE	\$ 6,379,533	\$ 6,869,620	\$ 7,736,949	\$ 6,500,186	\$ 8,292,446
CUSTOMER BILLING & COLLECTION	\$ 1,690,264	\$ 1,840,209	\$ 2,099,088	\$ 1,873,550	\$ 2,191,899
ADM & GENERAL EXPENSES	\$ 5,512,324	\$ 4,522,154	\$ 5,007,023	\$ 4,589,738	\$ 4,827,790
TOTAL OPERATING EXPENDITURES	\$ 19,966,950	\$ 19,514,789	\$ 21,431,119	\$ 18,878,044	\$ 22,351,742
CAPITAL EXPENDITURES	\$ 3,645,500	\$ 2,347,428	\$ 5,928,620	\$ 4,489,320	\$ 6,206,340
DEBT SERVICE	\$ 10,916,921	\$ 12,115,878	\$ 13,398,513	\$ 13,167,885	\$ 13,925,717
TRANSFERS TO RESERVES	\$ 11,793,732	\$ 10,416,938	\$ 10,405,748	\$ 10,755,500	\$ 10,094,201
TOTAL EXPENDITURES/RESERVES	\$ 46,323,103	\$ 44,395,033	\$ 51,164,000	\$ 47,290,749	\$ 52,578,000
			\$ -		\$ -
DEBT COVERAGE RATIO (DCR)					
OPERATING REVENUES	\$ 42,207,850	\$ 43,844,154	\$ 44,409,000	\$ 44,638,000	\$ 45,308,000
OPERATING EXPENSES	\$ 19,966,950	\$ 19,514,789	\$ 21,431,119	\$ 18,878,044	\$ 22,351,742
FUNDS AVAILABLE FOR DEBT COVERAGE	\$ 22,240,900	\$ 24,329,365	\$ 22,977,881	\$ 25,759,956	\$ 22,956,258
DEBT SERVICE	\$ 10,916,921	\$ 12,115,878	\$ 13,398,513	\$ 13,167,885	\$ 13,925,717
DCR (Goal = >1.2)	2.04	2.01	1.71	1.96	1.65

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

			FY18				
Water Revenues			FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	PROJECTION	FY19 BUDGET
31701916	334000	State Grants			-		-
31701916	371100	Metered Water Sales	14,077,976	14,675,800	15,360,000	15,000,000	15,300,000
31701916	371101	Water Adjustments	(70,745)	(32,000)	(40,000)	(30,000)	(35,000)
31701916	371102	Private Fire Protection	83,886	91,400	90,000	110,000	100,000
31701916	371104	Service Initiation	214,570	217,700	210,000	216,000	215,000
31701916	371105	Late Fees	683,224	708,100	660,000	750,000	700,000
31701916	371106	Non-Payment	208,170	181,100	176,000	190,000	180,000
31701916	371107	Returned Payment Fees	14,550	12,200	12,000	11,000	11,000
31701916	371109	CCC	130,971	131,200	140,000	156,000	160,000
31701916	371111	Enernoc	21,976	15,500	8,000	10,000	8,000
31701916	371990	Miscellaneous	298	1,500	-	2,000	2,000
		Total Water Revenues	15,364,876	16,002,500	16,616,000	16,415,000	16,641,000

			FY18				
			FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	PROJECTION	FY19 BUDGET
Repurified Revenue			28,723	27,400	29,000	29,000	29,000

			FY18				
Wastewater Revenue			FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	PROJECTION	FY19 BUDGET
31702916	371111	Enernoc	14,310	12,100	7,000	6,000	6,000
31702916	372100	Sewer Charges	21,736,557	22,700,000	26,800,000	27,500,000	28,000,000
31702916	372101	Sewer Adjustment	(68,483)	(101,000)	(60,000)	(50,000)	(60,000)
31702916	372102	Pool Adjustments				-	
31702916	372103	Summer Sewer Credit	(1,586)	(5,000)	-	(1,000)	-
31702916	372105	O & M Fee	4,064,340	4,210,000	-	-	-
31702916	372106	Surveillance Fees	32,530	37,800	30,000	38,000	36,000
31702916	372107	Sampler	15,450	17,700	15,000	18,000	18,000
31702916	372108	BOD	318,664	253,500	240,000	260,000	250,000
31702916	372109	Amonia	107,547	62,900	70,000	38,000	36,000
31702916	372111	FOG Charges	582	-	-	-	-
31702916	372112	Septage Charges	42,220	55,200	42,000	45,000	42,000
		Total Sewer Revenues	26,262,131	27,243,200	27,144,000	27,854,000	28,328,000

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

			FY18				
Other Income (Expense)			FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	PROJECTION	FY19 BUDGET
31701916	371960	Water Tap Fees	469,090	364,300	400,000	400,000	400,000
		Tap Fee Expenses	(469,090)	(364,300)		(400,000)	(400,000)
31701916	334000	Grant Income	347,110	300,454	-	-	-
31701916	361000	Interest Earnings	47,603	60,000	40,000	70,000	70,000
31701916	371108	Miscellaneous Income	41,543	37,900	30,000	70,000	60,000
31702916	372200	Sewer Inspection Fees	115,864	172,700	150,000	200,000	180,000
		Total Other Income (Expense)	552,120	571,054	620,000	340,000	310,000

			FY18				
Interest Earnings - Restricted			FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	PROJECTION	FY19 BUDGET
31701916	361001	Interest Earnings - Restricted	39,996	45,000	55,000	70,000	70,000

			FY18				
Tap Transfer to Reserves			FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	PROJECTION	FY19 BUDGET
		Water Taps	700,000	222,200	200,000	250,000	200,000
		Sewer Taps	9,497,000	6,800,000	6,500,000	7,700,000	7,000,000
		Total Tap Revenue	10,197,000	7,022,200	6,700,000	7,950,000	7,200,000

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

ACCOUNT DESCRIPTION	FY18					FY19
	FY16	ACTUAL	FY17	ACTUAL	FY18 BUDGET	BUDGET
Water Division Operating Expenses						
Water Source Expenses	192,110	180,989	241,000	158,607	236,000	
Water Treatment Operations	3,727,908	3,958,605	3,949,399	3,635,174	4,068,469	
Water Treatment Maint	221,888	-	-	-	-	
Water Storage	47,864	32,830	63,500	29,758	60,000	
Water Distribution Operations	964,922	1,121,702	1,436,649	1,218,421	1,568,587	
Water Distribution Maintenance	122,627	-	-	-	-	
Cross Connection	197,129	233,192	249,271	194,729	317,407	
Water Plant Administration	910,380	755,488	648,240	677,881	789,144	
	6,384,829	6,282,806	6,588,059	5,914,570	7,039,607	
Sewer Division Operating Expenses						
Sewer Collections Operations	386,171	1,301,361	1,571,894	1,528,382	1,944,256	
Sewer Collections Maintenance	10,563	3,727	-	-	-	
Sewer Rehabilitation	675,192	133,262	155,466	139,063	133,500	
Sewer Pump Stations	498,613	672,759	660,069	657,245	731,289	
Sewer Ind Surv Personnel	206,142	284,877	292,763	272,355	298,364	
Sewer Private Laterals	63,764	3,316	7,500	231	7,500	
House Services	150,866	62,372	12,000	8,582	12,000	
Sewer Treatment Operations	3,034,959	2,741,713	3,131,688	2,371,940	3,144,383	
Sewer Disposal	422,431	601,360	639,727	546,876	695,628	
Sewer Plant Administration	735,143	798,159	907,887	721,314	943,318	
Repurified System Expenses	195,689	266,714	357,955	254,198	382,208	
	6,379,533	6,869,620	7,736,949	6,500,186	8,292,446	
Meter Field Services	453,472	653,773	739,027	596,839	793,989	
Customer Service	1,236,792	1,186,436	1,360,061	1,276,711	1,397,910	
	1,690,264	1,840,209	2,099,088	1,873,550	2,191,899	
Engineering/Admin						
O&M Administration	1,016,993	838,159	774,129	742,189	536,926	
Engineering Department	683,155	694,047	966,574	737,611	1,066,479	
Field Inspectors Department	336,712	327,478	348,149	329,261	422,305	
Water & Sewer Administration Dept	3,475,464	2,662,470	2,918,171	2,780,677	2,802,080	
	5,512,324	4,522,154	5,007,023	4,589,738	4,827,790	

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

CAPITAL EXPENDITURES		FY17		FY18		
		FY16 ACTUAL	ACTUAL	FY18 BUDGET	PROJECTION	FY19 BUDGET
60000.280	METERS/ERTs/M-Logs	6,500	4,587	100,000	51,584	75,000
60000.290	WATER TAPS	298,000	184,024	200,000	116,216	100,000
60000.300	SEWER TAPS	160,000	154,074	100,000	115,231	100,000
60000.305	REPURFIED TAPS	13,000	26,228	5,000	18,072	20,000
60000.310	FIRE HYDRANTS	21,000	13,358	25,000	19,558	25,000
60000.320	WATER LINES	362,000	273,439	425,000	250,000	300,000
60000.330	SEWER LINES	111,000	305,282	350,000	250,000	300,000
60000.335	SEWER REHAB CONSTRUCTION	1,165,000	-	1,500,000	1,000,000	
60000.340	CIP LABOR	325,000	325,000	400,000	350,000	300,000
60000.350	BLDG/LAND IMPROVEMENTS	70,000	42,526	662,000	500,000	590,575
60000.370	NEW EQUIP VEHICLE	475,000	631,288	510,000	476,679	709,650
60000.375	NEW EQUIP SWR REHAB	40,000	49,212	16,000	27,161	-
60000.380	NEW EQUIP WTR PLANT	41,000	71,603	18,500	4,644	428,850
60000.390	NEW EQUIP MAINT.	18,000	25,516	263,500	229,308	90,508
60000.400	NEW EQUIP SWR PLANT	36,000	-	67,500	15,972	223,200
60000.405	NEW EQUIPMENT LIFT STATNS	1,000	-	136,000	75,000	174,000
60000.410	NEW EQUIPMENT OTHER	19,000	-	10,000	5,318	66,700
60000.420	EQUIP REPLACE WTR PLNT	237,000	156,414	522,100	506,981	918,200
60000.430	EQUIP REPLACE MAINT	39,000	27,202	16,500	43,667	74,950
60000.440	EQUIP REPLACE OTHER	26,000	16,256	65,920	150,434	328,915
60000.445	EQUIP REPLACE SWR REHAB	12,000	4,562	28,500	24,747	
60000.460	EQUIP REPLACEMENT SWR PLT	145,000	35,018	500,600	250,000	1,277,400
60000.465	EQUIPMENT REPLACE LIFT ST	25,000	1,839	6,500	8,751	103,392
60000.470	NEW EQUIPMENT, REUSE	-	-		-	
	CAPITAL EXPENDITURES	3,645,500	2,347,428	5,928,620	4,489,320	6,206,340

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

DEBT SERVICE	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
BOND DEBT SERVICE	28,793	36,000	30,000	-	-
INTEREST EXP TMBF 2003	32,098	48,352	50,000	61,000	75,000
INTEREST EXP TML 2006	370,379	370,379	400,000	500,000	650,000
INTEREST EXP 2009 REFUND	1,157,400	355,250	242,250	242,250	123,750
INTEREST EXP 2013 REFUNDING	284,991	238,663	192,439	192,439	145,279
INTEREST EXP 2016 REFUNDING		641,061	662,000	662,000	657,000
INTEREST SRF 2012-303 PS	62,063	72,233	69,804	68,292	64,836
INTEREST SRF 2013-317 FM	34,632	32,940	31,248	31,248	29,544
INTEREST SRF 2012-306 HW	154,609	181,781	213,204	118,596	112,584
INTEREST SRF 2016 4D #1	27,348	52,860	50,412	50,412	47,904
INTEREST SRF 2016 4D #2	21,604	205,237	388,000	415,652	426,228
PRINCIPAL TML 2003	442,000	456,000	471,000	471,000	486,000
PRINCIPAL TML SERIES 2006	1,879,000	1,963,000	2,051,000	2,051,000	2,144,000
REVENUE AND TAX BOND 2009	2,195,000	2,260,000	2,370,000	2,370,000	2,475,000
PRINCIPAL 2013 REFUNDING	3,510,000	3,555,000	3,600,000	3,600,000	3,650,000
PRINCIPAL 2016 REFUNDING		100,000	100,000	100,000	100,000
PRINCIPAL SRF 2012-303 PUMP ST	114,368	342,510	348,468	340,932	344,112
PRINCIPAL SRF 2013-317 FORCE MN	165,444	166,992	168,552	168,552	170,124
PRINCIPAL SRF 2012-306 HEADWORKS	349,340	860,188	1,064,388	591,972	597,504
PRINCIPAL SRF 2016 4D #1	87,852	177,432	179,748	179,748	182,100
PRINCIPAL SRF 2016 4D #2		-	716,000	952,792	1,444,752
	-	-			
DEBT SERVICE	10,916,921	12,115,878	13,398,513	13,167,885	13,925,717

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

RESERVES	FY18				
	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	PROJECTION	FY19 BUDGET
RESERVE WATER, 231	700,000	220,000	200,000	250,000	200,000
RESERVE FUNDS SEWER, 232	7,330,000	4,400,000	6,500,000	6,000,000	6,000,000
RESERVE SPECIAL ASSESSMENTS	2,167,000	2,400,000	550,000	1,700,000	1,000,000
RESERVE SINKING FUND CORPS 235	30,500	30,500	30,500	30,500	30,500
RESERVE INTEREST INCOME 225	30,000	45,000	55,000	65,000	70,000
RESERVE FUTURE CAPITAL EXPENSE	1,201,232	1,500,000	1,000,000	1,000,000	418,701
RESERVE FUTURE DEBT, 234	335,000	335,000	335,000	335,000	-
Biosolids Processing Equip & Storage		400,000	500,000	500,000	500,000
Lift Station Replacement (On-going)		286,438	250,000	250,000	250,000
Walter Hill Dam Repair/Remediation		300,000	125,000	125,000	125,000
NE Regional P.S. & FM		500,000	860,248	500,000	500,000
Sewer Rehab					1,000,000
TOTAL SINKING FUNDS	-	1,486,438	1,735,248	1,375,000	2,375,000
	11,793,732	10,416,938	10,405,748	10,755,500	10,094,201

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Water Operations

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
Source - Operations							
31701118	524000	Utility Services	185,080	158,567	190,000	124,597	180,000
31701118	524504	Instrumentation	-	2,834	4,000	8,300	4,000
31701118	525002	Inspections	-	-	25,000	14,571	25,000
31701118	525406	Stream Monitoring	1,847	1,847	3,000	1,583	3,000
31701118	526200	Repair & Maint. Other Mach & Eq	1,075	1,441	-	8,816	5,000
31701118	526500	Repair & Maint Grounds & Imp	-	6,109	2,000	740	2,000
31701118	526600	Repair & Maint. Buildings	3,295	10,191	8,000	-	8,000
31701118	526900	Repair & Maint. Other	-	-	4,000	-	4,000
31701118	533100	Gas, Oil, Diesel, Grease	-	-	3,000	-	3,000
31701118	599900	Miscellaneous Expense	813	-	2,000	-	2,000
			192,110	180,989	241,000	158,607	236,000

Treatment - Operations

31701137	511100	Salary - Full-Time - Regular	1,393,588	1,146,474	1,116,594	993,891	1,216,297
31701137	511400	Longevity		17,580	17,040	15,480	15,060
31701137	511500	Holiday Pay		1,826	-	22,887	22,000
31701137	511999	Special Payments		40,765	-		-
31701137	512100	Part Time Wages		3,376	-	14,793	-
31701137	512300	Overtime Wages	29,444	71,683	75,000	81,675	113,129
31701137	512301	Stand-By Pay		-	-	5,479	6,240
31701137	513100	Retirement Vacation & Sick Pay		-	-	22,360	-
31701137	513201	Annual Holiday Gift		-	-	1,175	1,100
31701137	514100	Social Security Tax	27,299	74,905	64,259	83,976	103,930
31701137	514101	Medicare Tax	6,384	16,769	15,036	-	-
31701137	514200	Hospital And Health Insurance	95,740	325,431	337,100	323,323	416,444
31701137	514203	Dental Insurance - Delta	4,157	12,501	13,801	13,829	19,992
31701137	514204	Dental Insurance - Assurant	81	28	-	-	-
31701137	514300	Defined Benefit Plan	35,644	100,494	101,541	94,939	110,071
31701137	514301	Defined Contribution Plan	4,478	14,519	16,289	16,777	30,874

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

Water Operations

ORG	OBJ	DESCRIPTION	FY18		FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
			FY16 ACTUAL	FY17 ACTUAL			
31701137	514500	LTD & Life Insurance	12,567	7,362	7,289	7,191	9,632
31701137	514804	Physicals/Immunizations	-	-	-	-	-
31701138	523000	Publicity, Subscription & Dues	-	-	-	-	-
31701138	524000	Utility Services	985,366	966,436	1,000,000	940,472	1,000,000
31701138	524500	Telephone & Other Comm.	-	-	-	-	-
31701138	524501	Cell Phone	-	60	-	-	-
31701138	524504	Instrumentation	21,771	15,333	20,000	7,631	20,000
31701138	525000	Professional Services	-	-	-	-	-
31701138	525409	Other Monitoring	-	8,121	3,000	2,224	3,000
31701138	526101	Fleet - Repair & Maintenance	8,647	9,754	8,700	7,605	8,700
31701138	526200	Repair & Maint Other Mach & Eq	100,634	101,757	80,000	72,931	80,000
31701138	526500	Repair & Maint Grounds & Imp	27,830	19,194	40,000	10,953	-
31701138	526600	Repair & Maint Bldg		10,263	6,500	11,247	-
31701138	526900	Repair & Maint - Other	2,803	19,679	26,500	27,664	-
31701138	528200	Car Allowance & Mileage	-	-	-	-	-
31701138	531000	Office Supplies and Materials	2,245	-	-	-	-
31701138	531200	IT Supplies	-	441	500	360	500
31701138	532000	Operating Supplies	3,519	8,551	10,500	3,497	8,000
31701138	532001	Electrical Supplies	928	10,765	15,000	6,223	-
31701138	532002	Plumbing Supplies	2,938	2,797	6,500	1,795	-
31701138	532003	Flushing Supplies	-	2,015	5,000	-	-
31701138	532006	Shop Supplies	-	2,973	-	5,513	3,000
31701138	532007	Communications Supplies	-	431	-	1,706	-
31701138	532008	Maintenance Supplies	-	7,256	1,600	1,490	-
31701138	532010	Building Supplies	-	8,145	4,000	1,353	-
31701138	532200	Chemical, Lab & Med Supplies	36,982	45,297	52,000	39,458	50,000
31701138	532202	LIME	219,863	193,042	252,000	207,239	210,000
31701138	532203	CARBON DIOXIDE WTP	1,365	708	4,000	5,108	4,000
31701138	532204	SODIUM CHLORIDE WTP	87,596	94,933	65,000	57,591	70,000

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

Water Operations

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701138	532207	POLYMER WTP	42,331	39,013	36,000	23,806	36,000
31701138	532208	SODA ASH WTP	-	4,117	17,000	4,544	5,000
31701138	532209	CALCIUM THIOSULFATE WTP	7,622	14,214	12,000	8,286	10,000
31701138	532210	SODIUM HYDROXIDE WTP	4,312	4,237	5,000	4,400	5,000
31701138	532211	CITRIC ACID WTP	60,114	18,274	18,000	14,434	16,000
31701138	532213	FLUORIDE WTP	25,459	18,502	17,000	15,614	17,000
31701138	532214	PERMANGANATE WTP	284,803	294,833	275,000	262,944	285,000
31701138	532215	HYDROGEN PEROXIDE-WTP	17,840	23,590	26,000	28,277	26,000
31701138	532216	Phosphate	43,028	47,806	45,000	50,784	45,000
31701138	532217	Coagulant	30,508	26,129	25,000	17,973	20,000
31701138	532218	Lab Chemicals	20,989	14,064	18,000	18,464	18,000
31701138	532299	Other Chemicals	6,211	25,456	17,000	20,514	17,000
31701138	532601	Clothing and Uniforms	-	-	-	-	-
31701138	532609	Personal Protective Equipment	5,345	6,862	10,000	1,694	10,000
31701138	533100	Gas, Oil, Diesel, Grease, Etc.	2,284	7,980	9,000	2,503	9,000
31701138	533101	Fuel	8,225	9,876	10,000	9,090	10,000
31701138	533200	Vehicle Parts & Accessories		1,433	500	1,155	500
31701138	534102	Small Tools	7,636	9,816	5,000	5,141	5,000
31701138	534400	Safety Supplies		890	6,000	9,711	6,000
31701138	553300	Machinery and Equipment Rental	881	2,291	3,000	2,291	3,000
31701138	554000	Depreciation	22,277	-	-	-	-
31701138	594000	Machinery and Equipment	6,268	12,912	6,700	11,916	-
31701138	594001	Lab Equipment	4,261	5,228	20,450	6,237	-
31701138	594100	Transportation Equip	7,759	1,779	-	3,420	-
31701138	594500	Communication Equipment Exp	901	1,305	-	2,141	-
31701138	594901	Furniture & Fixtures	6,140	6,334	-	-	-
31701138	599900	Miscellaneous Expense	844	-	3,000	-	3,000
		TOTAL:	3,727,908	3,958,605	3,949,399	3,635,174	4,068,469

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Water Operations

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
Treatment - Maintenance							
31701147	511100	Salary - Full-Time - Regular	95,300	-	-	-	-
31701147	511400	Longevity		-	-	-	-
31701147	512300	Overtime Wages	3,315	-	-	-	-
31701147	514100	Social Security Tax	5,600	-	-	-	-
31701147	514101	Medicare Tax	1,310	-	-	-	-
31701147	514200	Hospital And Health Insurance	33,469	-	-	-	-
31701147	514203	Dental Insurance - Delta	1,281	-	-	-	-
31701147	514300	Defined Benefit Plan	7,297	-	-	-	-
31701147	514301	Defined Contribution Plan	954	-	-	-	-
31701147	514500	LTD & Life Insurance	1,509	-	-	-	-
31701147	524504	Instrumentation	1,979	-	-	-	-
31701148	526200	Repair & Maint Other Mach & Eq	9,070	-	-	-	-
31701148	526600	Repair & Maint Bldg	59,594	-	-	-	-
31701148	532001	Electrical Supplies	76	-	-	-	-
31701148	534102	Small Tools	1,135	-	-	-	-
31701148	599900	Miscellaneous Expense	-	-	-	-	-
			221,888	-	-	-	-
Storage - Operations							
31701157	511100	Salary - Full-Time - Regular	17,092	-	-	-	-
31701158	524000	Utility Services	13,145	10,028	15,000	10,134	15,000
31701158	524504	Instrumentation	765	1,475	3,000	3,604	3,000
31701158	525409	Other Monitoring	-	-	-	-	-
31701158	526200	Repair & Maint Other Mach & Eq	-	6,302	10,000	9,777	10,000
31701158	526500	Repair & Maint Grounds & Improv	-	2,432	7,500	702	7,250
31701158	526900	Repair & Maint Generators	167	-	7,500	-	7,500
31701158	531200	IT Supplies	-	195	500	-	500
31701158	532000	Operating Supplies	783	-	1,000	103	1,000
31701158	532001	Electrical Supplies	-	3,969	4,000	-	4,000

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Water Operations

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701158	532003	Flushing	-	730	-	-	-
31701158	532299	Other Chemicals	1,930	3,416	2,500	2,198	2,500
31701158	533100	Gas, Oil, Diesel, Grease	1,529	-	2,500	-	2,500
31701158	534102	Small Tools	539	-	-	141	250
31701158	553300	Machinery and Equipment Rental	267	450	500	3,099	500
31701158	594000	Machinery & Equipment		682	3,500	-	-
31701158	594702	Computer Equipment	1,837	-	-	-	-
31701158	599900	Miscellaneous Expense	9,810	3,151	6,000	-	6,000
			47,864	32,830	63,500	29,758	60,000

Cross Connections - Operations

31701197	511100	Salary - Full-Time - Regular	142,299	149,464	156,658	117,862	190,077
31701197	511400	Longevity		3,780	3,960	3,960	4,140
31701197	511999	Special Payments		5,697	-	-	-
31701197	512300	Overtime Wages	672	3,116	5,000	5,621	9,743
31701197	513201	Annual Holiday Gift		-	-	150	200
31701197	514100	Social Security Tax	2,807	9,920	9,465	9,764	15,699
31701197	514101	Medicare Tax	656	2,207	2,214	-	-
31701197	514200	Hospital And Health Insurance	22,835	24,695	22,596	23,107	42,141
31701197	514203	Dental Insurance - Delta	898	883	902	867	1,961
31701197	514300	Defined Benefit Plan	5,052	18,248	18,249	15,619	21,159
31701197	514301	Defined Contribution Plan					2,479
31701197	514500	LTD & Life Insurance	950	1,017	1,027	867	1,483
31701198	523000	Publicity, Subscription & Dues	45	330	300	437	300
31701198	523500	Memberships	285	-	-	-	-
31701198	524500	Telephone & Other Comm.	-	-	-	-	-

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Water Operations

ORG	OBJ	DESCRIPTION	FY18		FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
			FY16 ACTUAL	FY17 ACTUAL			
31701198	524501	Cell Phone	1,765	1,952	1,950	1,845	1,950
31701198	524502	Internet	1,224	1,224	1,250	1,162	1,250
31701198	526101	Fleet - Repair & Maintenance	1,888	2,254	3,500	2,639	3,500
31701198	526200	Repair & Maint Other Mach Eq	380	1,091	1,050	628	1,050
31701198	526213	Repair & Maint. - Computers	-	246	1,000	-	500
31701198	528000	Training & Travel	1,566	1,207	6,500	3,000	8,075
31701198	531000	Office Supplies and Materials	231	131	250	621	250
31701198	531100	Office Stationery & Forms	-	431	500	-	500
31701198	531200	IT Supplies	-	-	-	890	750
31701198	532000	Operating Supplies	574	-	1,000	-	1,000
31701198	532601	Clothing and Uniforms	1,053	1,109	1,900	1,303	1,900
31701198	532609	Personal Protective Equipment	-	-	600	-	600
31701198	533101	Fuel	2,866	3,214	5,000	2,107	5,000
31701198	533200	Vehicle Parts & Repair	-	713	1,000	-	1,000
31701198	534102	Small Tools	-	194	200	-	200
31701198	554000	Depreciation	8,080	-	-	-	-
31701198	573200	Compensation for Damages	-	69	-	-	-
31701198	594000	Machinery & Equipment	1,003	-	2,700	-	-
31701198	594702	Computer Equipment	-	-	-	1,851	-
31701198	599900	Miscellaneous Expense	-	-	500	429	500
			197,129	233,192	249,271	194,729	317,407

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Water Operations

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
Transmission & Distribution							
31701177	511100	Salary - Full-Time - Regular	466,855	536,139	760,237	636,293	789,395
31701177	511400	Longevity		10,200	10,140	11,040	13,416
31701177	511500	Holiday Pay		-	-	645	500
31701177	511999	Special Payments		23,412	-	-	-
31701177	512300	Overtime Wages	16,507	41,090	35,000	51,122	28,873
31701177	512301	Stand-By Pay		-	-	4,326	4,992
31701177	513201	Annual Holiday Gift		-	-	850	900
31701177	514100	Social Security Tax	17,775	41,200	42,176	41,789	73,704
31701177	514101	Medicare Tax	4,157	9,192	9,869	-	-
31701177	514200	Hospital And Health Insurance	75,082	151,512	170,158	148,325	265,821
31701177	514203	Dental Insurance - Delta	3,563	6,341	8,079	6,828	13,883
31701177	514204	Dental Insurance - Assurant	106	41	-	-	-
31701177	514300	Defined Benefit Plan	20,142	51,313	52,234	53,396	73,781
31701177	514301	Defined Contribution Plan	4,706	8,076	13,397	9,285	24,306
31701177	514500	LTD & Life Insurance	4,740	4,345	5,303	4,843	7,016
31701177	514804	Physicals/Immunizations	-	-	-	-	-
31701178	523000	Publicity, Subscription & Dues	-	-	-	-	-
31701178	524000	Utility Services	8,449	8,600	9,000	8,794	9,000
31701178	524500	Telephone & Other Comm.	-	-	-	-	-
31701178	524501	Cell Phone	-	-	-	-	-

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Water Operations

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701178	524504	Instrumentation	-	-	-	-	-
31701178	525002	Inspections	-	-	-	-	-
31701178	525409	Other Monitoring	16,857	-	6,000	-	-
31701178	526000	Repair & Maint. Services	42,060	27,440	40,000	27,920	40,000
31701178	526101	Fleet - Repair & Maintenance	52,229	53,033	65,000	36,835	55,000
31701178	526200	Repair & Maint Other Mach & Eq	1,716	5,729	5,000	12,875	6,000
31701178	526213	Repair & Maint. - Computers	100	-	1,000	-	-
31701178	526500	Repair & Maint Grounds & Imp	-	-	-	-	-
31701178	526807	Repair & Maintenance - Meters	9,035	3,335	7,000	7,470	8,000
31701178	526808	Repair & Maint. - Hydrants	2,677	3,047	7,000	6,186	7,000
31701178	528000	Training & Travel	-	-	-	-	-
31701178	528200	Car Allowance & Mileage	-	-	-	-	-
31701178	531100	Office Supplies		830	-	-	-
31701178	532000	Operating Supplies	9,604	12,647	12,000	13,986	14,000
31701178	532003	Flushing Supplies	635	-	2,000	-	1,000
31701178	532004	Pipe/Material/Supplies	30,482	28,611	30,000	23,465	30,000
31701178	532005	Field Supplies	-	85	-	4,124	3,000
31701178	532006	Shop Supplies	-	-	-	33	500
31701178	532400	Household & Janitor Supplies	399	-	-	-	-
31701178	532601	Clothing and Uniforms	442	59	1,000	-	-

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Water Operations

ORG	OBJ	DESCRIPTION	FY18		FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
			FY16 ACTUAL	FY17 ACTUAL			
31701178	532609	Personal Protective Equipment	1,689	-	1,000	-	-
31701178	533100	Gas, Oil, Diesel, Grease, Etc.	3,072	1,709	3,000	290	2,000
31701178	533101	Fuel	33,002	33,483	36,000	29,550	36,000
31701178	533200	Vehicle Parts & Repair	-	129	500	348	500
31701178	534102	Small Tools	7,731	9,527	15,000	2,726	10,000
31701178	534400	Safety Supplies	29	24	500	2,393	1,500
31701178	545100	Crushed Stone	16,523	14,331	17,000	11,570	17,000
31701178	547100	Asphalt and Asphalt Filler	20,689	8,269	25,000	13,873	25,000
31701178	553300	Machinery and Equipment Rental	2,665	200	3,000	-	1,000
31701178	554000	Depreciation	48,962	-	-	-	-
31701178	573200	Compensation For Damages	81	887	1,200	2,177	2,500
31701178	594000	Machinery and Equipment	24,424	16,217	24,856	35,649	-
31701178	594100	Transp Equipment	3,275	151	-	-	-
31701178	594701	Software	-	-	-	-	-
31701178	594801	Meters	1,548	8,642	5,000	9,168	-
31701178	594802	Hydrants	10,134	-	10,000	-	-
31701178	594901	Office Furniture & Equipment	-	-	-	-	-
31701178	599900	Miscellaneous Expense	2,778	1,856	3,000	247	3,000
			964,922	1,121,702	1,436,649	1,218,421	1,568,587

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Water Operations

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
T&D							
31701187	511100	Salary - Full-Time - Regular	71,209	-	-	-	-
31701187	511400	Longevity		-	-	-	-
31701187	512300	Overtime Wages	8,922	-	-	-	-
31701187	514100	Social Security Tax	6,388	-	-	-	-
31701187	514101	Medicare Tax	1,494	-	-	-	-
31701187	514200	Hospital And Health Insurance	26,895	-	-	-	-
31701187	514203	Dental Insurance - Delta	1,179	-	-	-	-
31701187	514300	Defined Benefit Plan	5,670	-	-	-	-
31701187	514301	Defined Contribution Plan	327	-	-	-	-
31701187	514500	LTD & Life Insurance	271	-	-	-	-
31701188	526101	Fleet - Repair & Maintenance	-	-	-	-	-
31701188	526500	Repair & Maint Grounds & Imp	271	-	-	-	-
31701188	532000	Operating Supplies	-	-	-	-	-
31701188	533101	Fuel	-	-	-	-	-
31701188	554000	Depreciation	-	-	-	-	-
			122,627	-	-	-	-

Water - Administration

31701237	511100	Salary - Full-Time - Regular	78,516	265,482	267,343	245,890	274,786
31701237	511400	Longevity		4,080	4,320	4,320	2,040
31701237	511500	Holiday Pay		-	-	426	400
31701237	511999	Special Payments		9,526	-	-	-
31701237	512300	Overtime Wages		404	1,000	180	5,933
31701237	513201	Annual Holiday Gift		-	-	175	200
31701237	514100	Social Security Tax	4,688	17,048	16,255	18,307	21,751
31701237	514101	Medicare Tax	1,096	3,808	3,804	-	-
31701237	514200	Hospital And Health Insurance	238,312	32,375	28,301	50,833	53,616
31701237	514203	Dental Insurance - Delta	11,059	1,666	1,808	1,447	2,256
31701237	514300	Defined Benefit Plan	8,675	29,551	31,090	25,659	20,199

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Water Operations

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701237	514301	Defined Contribution Plan		-	-	1,647	7,366
31701237	514500	LTD & Life Insurance	1,700	1,696	1,719	1,621	1,897
31701237	514803	Respiratory Protection Program	1,589	1,763	-	-	-
31701237	514804	Physicals/Immunizations	154	225	-	70	-
31701237	519010	Temporary Agency Service		-	-	27,071	-
31701238	520000	Contractual Services	-	2,000	-	-	-
31701238	522000	Printing - Wtr Quality Report	9,439	8,608	10,000	9,000	10,000
31701238	523000	Publicity, Subscription & Dues	-	1,132	1,200	1,030	1,200
31701238	523100	Publication-Formal & Legal	-	154	1,000	452	1,000
31701238	523500	Memberships	3,153	2,295	3,500	2,219	3,500
31701238	523501	License/Prof Fees	1,550	1,230	2,500	2,998	2,500
31701238	523600	Public Relations	1,969	2,234	2,500	3,076	2,500
31701238	524500	Telephone & Other Comm.	1,594	1,763	2,000	1,683	2,000
31701238	524501	Cell Phone	10,114	11,590	10,500	10,639	10,500
31701238	524502	Internet	2,884	2,891	3,000	3,496	3,000
31701238	525401	Corps of Engineer Report	25,860	23,920	32,000	26,000	30,000
31701238	525402	Environmental Fees	42,029	42,254	43,000	42,300	44,000
31701238	526200	Repair & Maint Other Machines	-	-	-	-	-
31701238	526213	Repair & Maint. - Computers	40,243	50,881	59,000	7,400	10,000
31701238	526214	Repair & Maint. - Software	-	-	-	32,933	49,000
31701238	526500	Repair & Maint Grounds & Imp	33,978	23,254	20,000	19,872	60,000
31701238	526600	Repair & Maint Bldg	-	18,646	-	4,842	12,000
31701238	526900	Repair & Maint-Other	-	-	-	-	26,500
31701238	528000	Training & Travel	39,132	35,791	42,550	41,042	42,550
31701238	528050	Safety Training	-	-	1,600	3,411	2,000
31701238	528200	Car Allowance & Mileage	2,247	2,609	2,500	2,638	2,500
31701238	529801	Sediment Removal	-	118,615	-	23,841	-
31701238	531000	Office Supplies and Materials	4,026	7,464	8,000	7,779	8,000
31701238	531100	Office Stationery & Forms	-	770	750	-	750

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Water Operations

ORG	OBJ	DESCRIPTION	FY18		FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
			FY16 ACTUAL	FY17 ACTUAL			
31701238	531200	IT Supplies	320	230	500	924	1,000
31701238	531201	Software Subscriptions	-	-	-	779	1,000
31701238	531300	Postage & Shipping	432	799	600	501	600
31701238	532001	Electrical Supplies	-	-	-	-	10,000
31701238	532002	Plumbing Supplies	-	-	-	-	6,500
31701238	532003	Flushing Supplies	-	-	-	-	5,000
31701238	532006	Shop Supplies	-	-	-	-	-
31701238	532007	Communications Supplies	-	-	-	-	2,000
31701238	532008	Maintenance Supplies	-	-	-	-	1,600
31701238	532010	Building Supplies	-	851	1,100	3,040	5,500
31701238	532200	Lab Supplies	-	-	-	-	-
31701238	532300	Food	526	1,863	2,500	2,100	2,500
31701238	532400	Household & Janitor Supplies	6,180	5,627	6,000	5,446	6,000
31701238	532601	Clothing and Uniforms	11,941	13,907	16,000	16,419	16,000
31701238	534400	Safety Supplies	2,133	2,381	2,500	1,289	2,500
31701238	552500	Property Insurance	-	50	-	86	-
31701238	554000	Depreciation	317,375	-	-	-	-
31701238	573200	Compensation For Damages	-	-	-	453	-
31701238	592000	Buildings Exp	7,468	2,428	15,000	-	15,000
31701238	594702	Computer Equipment	-	1,249	-	20,609	-
31701238	594703	Software	-	-	-	1,938	-
31701238	594901	Furniture & Office Equip	-	378	2,800	-	-
			910,380	755,488	648,240	677,881	789,144
			6,384,829	6,282,806	6,588,059	5,914,570	7,039,607

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
Collections - Ops							
31702317	511100	Salary - Full-Time - Regular	159,955	726,831	943,158	914,792	1,080,377
31702317	511400	Longevity		13,140	15,960	15,120	17,484
31702317	511500	Holiday Pay		72	-	169	-
31702317	511999	Special Payments		29,339	-	-	-
31702317	512300	Overtime Wages	13,633	29,726	30,000	35,594	43,310
31702317	512301	Standby Pay		-	-	4,692	7,488
31702317	513201	Annual Holiday Gift		-	-	1,000	1,000
31702317	514100	Social Security Tax	11,388	49,869	51,341	61,423	102,396
31702317	514101	Medicare Tax	2,663	11,116	11,968	-	-
31702317	514200	Hospital And Health Insurance	30,497	225,189	272,735	248,643	381,343
31702317	514203	Dental Insurance - Delta	1,676	8,595	10,741	9,381	19,992
31702317	514300	Defined Benefit Plan	15,982	66,815	70,582	73,937	97,633
31702317	514301	Defined Contribution Plan	804	9,954	17,094	12,565	36,459
31702317	514500	LTD & Life Insurance	5,324	5,507	6,165	5,840	9,774
31702318	524500	Telephone & Other Comm.	33	-	-	-	-
31702318	524501	Cell Phone	-	-	-	-	-
31702318	526101	Fleet - Repair & Maintenance	50,610	42,236	50,000	48,885	50,000
31702318	526200	Repair & Maint Other Mach & Eq	438	2,960	500	3,102	5,000
31702318	526213	Repair & Maint. - Computers	100	-	150	-	-
31702318	531000	Office Supplies and Materials	-	784	-	-	-
31702318	531100	Office Stationery		-	-	-	-
31702318	531300	Postage & Shipping	13	-	-	-	-

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31702318	532000	Operating Supplies	9,208	12,616	10,000	7,641	10,000
31702318	532004	Pipe/Material/Supplies	-	4,701	7,500	3,687	5,000
31702318	532005	Field Supplies	-	243	500	2,479	2,500
31702318	532006	Shop Supplies	-	-	-	33	-
31702318	532601	Clothing and Uniforms	-	-	-	-	-
31702318	532609	Personal Protective Equipment	1,702	140	2,000	86	500
31702318	533100	Gas, Oil, Diesel, Grease, Etc.	184	1,701	2,000	-	2,000
31702318	533101	Fuel	31,509	35,386	40,000	30,695	40,000
31702318	534102	Small Tools	4,033	3,864	5,000	928	2,000
31702318	534400	Safety Supplies	-	-	-	1,178	500
31702318	545100	Crushed Stone	16,457	13,404	17,000	13,215	17,000
31702318	547100	Asphalt and Asphalt Filler	7,984	2,755	4,500	13,873	10,000
31702318	553300	Machinery and Equipment Rental	525	270	1,500	-	1,000
31702318	554000	Depreciation	19,657	-	-	-	-
31702318	573200	Compensation For Damages	-	-	-	1,534	-
31702318	594000	Machinery and Equipment	-	2,123	-	17,829	-
31702318	594100	Transportation Equip	102	151	-	-	-
31702318	594702	Computer Equipment	-	1,030	-	-	-
31702318	599900	Miscellaneous Expense	1,693	844	1,500	61	1,500
			386,171	1,301,361	1,571,894	1,528,382	1,944,256

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
Collections - Maint							
31702327	511100	Salary - Full-Time - Regular	6,843	398	-	-	-
31702328	526101	Fleet - Repair & Maintenance	571	-	-	-	-
31702328	526200	Repair & Maint Other Mach & Eq	40	1,439	-	-	-
31702328	526500	Repair & Maint Grounds & Imp	271	-	-	-	-
31702328	528200	Car Allowance & Mileage	-	-	-	-	-
31702328	532400	Household & Janitor Supplies	399	-	-	-	-
31702328	533101	Fuel	-	-	-	-	-
31702328	549000	Other Supplies & Materials	1,097	1,890	-	-	-
31702328	594000	Machinery and Equipment	1,342	-	-	-	-
			10,563	3,727	-	-	-

Sewer Rehab

31702337	511100	Salary - Full-Time - Regular	455,867	7,439	-	-	-
31702337	511400	Longevity		-	-	-	-
31702337	512300	Overtime Wages	7,763	-	-	-	-
31702337	514100	Social Security Tax	9,588	-	-	-	-
31702337	514101	Medicare Tax	2,243	-	-	-	-
31702337	514200	Hospital And Health Insurance	48,073	10,999	-	-	-
31702337	514203	Dental Insurance - Delta	1,802	-	-	-	-
31702337	514204	Dental Insurance - Assurant	12	-	-	-	-
31702337	514300	Defined Benefit Plan	16,530	-	-	-	-
31702337	514301	Defined Contribution Plan	1,264	-	-	-	-
31702337	514500	LTD & Life Insurance	3,416	-	-	-	-
31702338	520000	Contractual Services	14,369	-		-	

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31702338	526005	Repair & Maint Manholes	-	992	5,000	1,411	1,500
31702338	526101	Fleet - Repair & Maintenance	39,994	38,720	55,000	81,734	55,000
31702338	526200	Repair & Maint Other Mach & Eq	10,633	11,913	10,000	6,844	15,000
31702338	531300	Postage & Shipping	446	1,250	1,000	945	1,000
31702338	532000	Operating Supplies	3,969	3,152	2,500	4,853	3,500
31702338	532004	Pipe/Material/Supplies	16,446	13,760	22,000	21,248	22,000
31702338	532005	Field Supplies	-	-	-	48	-
31702338	533100	Gas, Oil, Diesel, Grease, Etc.	104	21	100	-	-
31702338	533101	Fuel	23,286	27,125	30,000	19,831	30,000
31702338	534102	Small Tools	137	495	4,000	718	2,000
31702338	545100	Crushed Stone	406	2,131	3,500	963	3,500
31702338	547100	Asphalt and Asphalt Filler	6,401	4,964	7,500	-	-
31702338	594000	Machinery and Equipment	12,143	10,301	11,866	468	-
31702338	594100	Transportation Equipment	300	-	-	-	-
31702338	594702	Computer Equipment	-	-	-	-	-
31702338	594901	Furniture & Fixtures	-	-	3,000	-	-
			675,192	133,262	155,466	139,063	133,500

Lift Statons

31702357	511100	Salary - Full-Time - Regular	56,209	163,569	107,448	146,858	161,461
31702357	511400	Longevity		2,880	3,060	3,060	3,240
31702357	511500	Holiday Pay		156	-	2,650	2,500
31702357	511999	Special Payments		5,859	-	-	-
31702357	512300	Overtime Wages	4,018	31,607	35,000	32,582	29,824
31702357	512301	Standby Pay		-	-	5,310	6,240
31702357	513201	Annual Holiday Gift		-	-	150	200
31702357	514100	Social Security Tax	1,707	12,271	9,270	14,287	15,431
31702357	514101	Medicare Tax	399	2,747	2,169	-	-
31702357	514200	Hospital And Health Insurance	26,739	30,031	29,854	29,532	30,821
31702357	514203	Dental Insurance - Delta	1,015	1,051	1,139	1,123	1,423

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31702357	514300	Defined Benefit Plan	2,508	18,536	19,023	19,012	24,309
31702357	514500	LTD & Life Insurance	286	1,039	1,056	1,070	1,440
31702357	514803	Respiratory Protection Program	137	141	-	-	-
31702358	520000	Contractual Services	-	-	-	-	-
31702358	523501	License/Prof Fees	140	90	200	257	200
31702358	524000	Utility Services	250,763	236,925	250,000	280,000	280,000
31702358	524200	Water	3,483	4,165	4,000	3,196	4,000
31702358	524500	Telephone & Other Comm.	572	94	1,000	-	-
31702358	524501	Cell Phone	1,766	2,002	2,000	1,793	2,000
31702358	524502	Internet	1,224	1,224	1,500	1,240	1,500
31702358	524503	Telemetry	-	-	-	-	-
31702358	525409	Other Monitoring	-	-		2,897	7,500
31702358	526101	Fleet - Repair & Maintenance	5,895	6,612	10,000	6,253	7,000
31702358	526200	Repair & Maint Other Mach & Eq	15,293	20,091	30,000	21,526	30,000
31702358	526213	Repair & Maint Computers	-	-	-	463	500
31702358	526500	Repair & Maint Grounds & Imp	18,795	24,624	27,500	16,851	17,000
31702358	526600	Repair & Maint. Buildings	104	75	5,000	3,317	5,000
31702358	526900	Repair & Maint Other	1,051	7,200	4,000	-	4,000
31702358	528000	Training & Travel	220	188	500	1,485	1,000
31702358	532000	Operating Supplies	625	1,506	2,000	3,117	3,000
31702358	532001	Electrical Supplies	-	-		810	500

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31702358	532006	Shop Supplies	-	278		-	100
31702358	532010	Building Supplies	-	1,368		1,405	1,500
31702358	532255	Odor Control	45,733	43,758	50,000	36,264	60,000
31702358	532601	Clothing and Uniforms	691	1,014	1,500	1,382	1,500
31702358	532609	Personal Protective Equipment	1,159	204	1,500	-	1,500
31702358	533100	Gas, Oil, Diesel, Grease, Etc.	7,992	535	2,500	109	2,500
31702358	533101	Fuel	14,125	14,296	20,000	10,225	20,000
31702358	534102	Small Tools	1,062	1,662	6,000	230	4,000
31702358	594000	Machinery and Equipment	24,724	34,216	32,750	8,174	-
31702358	594702	Computer Equipment	4,350	-	-	617	-
31702358	599900	Miscellaneous Expense	419	80	100	-	100
31702367	511100	Salary - Full-Time - Regular		665	-		-
31702368	526200	Repair & Maint Other Mach & Eq	4,908	-	-	-	-
31702368	532000	Operating Supplies	501	-	-	-	-
			498,613	672,759	660,069	657,245	731,289

Private Laterals

31702397	511100	Salary - Full-Time - Regular	33,572		-	-	-
31702397	511400	Longevity			-	-	-
31702397	512300	Overtime Wages	1,583		-	-	-
31702397	514100	Social Security Tax	2,258		-	-	-
31702397	514101	Medicare Tax	528		-	-	-
31702397	514200	Hospital And Health Insurance	13,824	2,765	-	-	-
31702397	514203	Dental Insurance - Delta	347		-	-	-
31702397	514204	Dental Insurance - Assurant			-	-	-
31702397	514300	Defined Benefit Plan	3,499		-	-	-

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31702397	514301	Defined Contribution Plan	757		-	-	-
31702397	514500	LTD & Life Insurance	888		-	-	-
31702398	526101	Fleet - Repair & Maintenance	-	-	-	-	-
31702398	532000	Operating Supplies	233	-	-	-	-
31702398	532004	Pipe/Material/Supplies	5,573	551	5,000	231	5,000
31702398	533101	Fuel	-	-	-	-	-
31702398	534102	Small Tools	153	-	500	-	500
31702398	545100	Crushed Stone	149	-	1,000	-	1,000
31702398	599900	Miscellaneous Expense	400	-	1,000	-	1,000
			63,764	3,316	7,500	231	7,500

House Services

31702417	511100	Salary - Full-Time - Regular	141,029	54,538	-	-	-
31702418	526101	Fleet - Repair & Maintenance	-	-	-	-	-
31702418	532000	Operating Supplies	9,837	7,834	12,000	8,582	12,000
31702418	533101	Fuel	-	-	-	-	-
31702418	599900	Miscellaneous Expense	-	-	-	-	-
31702427	511100	Salary - Full-Time - Regular			-	-	-
31702428	526101	Fleet - Repair & Maintenance			-	-	-
31702428	533101	Fuel			-	-	-
31702428	554000	Depreciation			-	-	-
			150,866	62,372	12,000	8,582	12,000

Industrial Surveillance

31702377	511100	Salary - Full-Time - Regular	145,205	144,963	146,397	138,156	153,347
31702377	511400	Longevity		3,180	3,360	3,360	3,540
31702377	511999	Special Payments		5,525			
31702377	512300	Overtime Wages	3,473	9,917	10,000	6,566	5,919
31702377	513201	Annual Holiday Gift		-		150	100
31702377	514100	Social Security Tax	2,495	9,306	8,242	10,501	12,527
31702377	514101	Medicare Tax	583	2,086	1,929	-	-

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31702377	514200	Hospital And Health Insurance	14,249	53,773	55,956	54,465	57,019
31702377	514203	Dental Insurance - Delta	513	1,845	1,998	1,972	2,499
31702377	514300	Defined Benefit Plan	4,370	17,706	18,037	18,090	20,189
31702377	514500	LTD & Life Insurance	642	642	1,000	1,019	1,180
31702378	523000	Publicity, Subscription & Dues	-	115	1,500	-	1,500
31702378	523500	Memberships	111	-	100	-	100
31702378	523501	License/Prof Fees	60	60	750	171	750
31702378	525403	TDEC Fees	-	-	2,000	-	2,000
31702378	525409	Other Monitoring	10,146	14,397	16,000	17,988	17,000
31702378	526101	Fleet - Repair & Maintenance	1,153	1,208	2,000	2,801	2,100
31702378	526200	Repair & Maint Other Mach & Eq	-	44		-	250
31702378	528000	Training & Travel	2,826	1,235	3,744	1,595	3,744
31702378	528200	Car Allowance & Mileage	1,438	924	2,000	1,343	2,000
31702378	531300	Postage & Shipping	72	35	200	62	200
31702378	532200	Chemical, Lab & Med Supplies	165	1,152	5,000	-	5,000
31702378	532256	Samplers Indust Surveillance	1,485	3,434	2,000	1,334	2,000
31702378	532601	Clothing and Uniforms	966	921	800	1,537	900
31702378	532609	Personal Protective Equipment	786	1,757	1,000	343	1,000
31702378	533100	Gas, Oil, Diesel, Grease, Etc.	-	-	500	-	300
31702378	533101	Fuel	1,298	1,811	2,000	1,756	2,000
31702378	533200	Vehicle Parts & Repair	-	258		-	250
31702378	534102	Small Tools	156	6	250	-	250
31702378	554000	Depreciation	2,509	-	-	-	-
31702378	594000	Machinery and Equipment	11,156	7,650	5,000	8,743	
31702378	594100	Transportation Equipment	-	799		-	
31702378	594702	Computer Equipment	-	-	-	326	
31702378	599900	Miscellaneous Expense	285	128	1,000	77	700
			206,142	284,877	292,763	272,355	298,364

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
Treatment							
31702457	511100	Salary - Full-Time - Regular	794,974	730,247	735,167	597,520	739,714
31702457	511400	Longevity		9,180	6,840	6,180	7,020
31702457	511500	Holiday Pay		809		9,012	9,000
31702457	511999	Special Payments		27,571			
31702457	512300	Overtime Wages	7,634	13,245	18,000	3,593	55,134
31702457	512301	Standby Pay		-		5,450	6,240
31702457	513201	Annual Holiday Gift		-		650	700
31702457	514100	Social Security Tax	16,518	46,790	43,542	46,185	62,228
31702457	514101	Medicare Tax	3,863	10,489	10,189	-	-
31702457	514200	Hospital And Health Insurance	61,342	149,068	142,241	106,812	165,625
31702457	514203	Dental Insurance - Delta	2,523	5,687	6,127	4,646	8,191
31702457	514300	Defined Benefit Plan	19,623	30,227	29,058	22,457	26,406
31702457	514301	Defined Contribution Plan	5,576	23,940	29,922	(289)	41,277
31702457	514500	LTD & Life Insurance	5,370	5,052	5,502	4,870	5,848
31702457	514804	Physicals/Immunizations			-	-	-
31702458	524000	Utility Services	1,341,431	1,258,226	1,400,000	1,229,405	1,400,000
31702458	524200	Water	9,576	9,003	9,000	17,091	10,000
31702458	524500	Telephone & Other Comm.	-	46	7,000	-	6,000
31702458	524501	Cell Phone	175	-	4,000	-	3,500
31702458	524504	Instrumentation	28,375	5,823	15,000	2,176	15,000
31702458	525406	Stream Monitoring	22,950	26,545	29,000	-	29,000
31702458	525407	Flow Monitoring	-	-	-	-	-
31702458	525409	Other Monitoring	30,171	-	30,000	13,797	30,000
31702458	526101	Fleet - Repair & Maintenance	5,818	17,418	10,500	6,720	11,000
31702458	526200	Repair & Maint Other Mach & Eq	-	60,484	70,000	66,266	72,000
31702458	526213	Repair & Maint. - Computers	637	533	5,000	-	4,000
31702458	526500	Repair & Maint Grounds & Imp	2,871	5,207	15,000	1,741	15,000
31702458	526600	Repair & Maint. Buildings	292	19,731	20,000	27,363	25,000

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31702458	526900	Repair & Maint - Other	27,622	3,601	7,500	20,967	12,500
31702458	528200	Car Allowance & Mileage	480	-	1,000	-	500
31702458	531100	Office Stationery	-	312	1,000	-	1,000
31702458	531200	IT Supplies	-	167	1,000	103	1,000
31702458	532000	Operating Supplies	9,242	4,063	8,000	1,293	7,000
31702458	532001	Electrical Supplies	-	7,303	8,000	2,592	7,000
31702458	532002	Plumbing Supplies	-	1,284	2,000	182	2,000
31702458	532007	Communication Supplies	-	252	500	103	500
31702458	532008	Maintenance Supplies	-	4,960	4,000	5,460	5,000
31702458	532010	Building Supplies	-	1,122	500	1,619	1,000
31702458	532200	Chemical, Lab & Med Supplies	43,072	25,712	40,000	26,674	40,000
31702458	532210	Sodium Hydroxide	-	3,183	-	10,190	11,000
31702458	532218	Lab Chemicals	9,693	15,658	19,500	16,575	20,000
31702458	532252	UV Disinfectant	82,742	3,894	80,000	-	60,000
31702458	532255	Odor Control	42,035	31,712	40,000	36,318	41,000
31702458	532400	Household & Janitor Supplies	1,905	3,110	2,500	2,179	2,500
31702458	532601	Clothing and Uniforms	3,036	2,596	7,500	1,463	6,500
31702458	532609	Personal Protective Equipment	4,063	8,304	10,000	2,294	8,000
31702458	533100	Gas, Oil, Diesel, Grease, Etc.	9,083	7,532	15,000	5,588	12,000
31702458	533101	Fuel	5,682	4,730	6,500	3,582	6,000
31702458	533200	Vehicle Parts & Repair	-	715	1,500	1,199	1,500
31702458	534102	Small Tools	3,658	8,093	4,000	6,042	4,500
31702458	534400	Safety Supplies	-	-		763	500
31702458	553300	Machinery and Equipment Rental	9,782	10,758	10,000	16,576	12,000
31702458	554000	Depreciation	8,276	-	-	-	-
31702458	592000	Building Expense	-	1,522	1,000	-	1,000
31702458	594000	Machinery and Equipment	11,187	16,244	67,700	23,423	-
31702458	594001	Lab Equipment	6,695	-	5,100	-	-
31702458	594500	Communication Equip Expense	-	972		-	-

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31702458	594702	Computer Equipment	2,585	11,730	14,300	15,110	-
31702467	511100	Salary - Full-Time - Regular	295,669	-	-	-	-
31702467	511400	Longevity		-	-	-	-
31702467	512300	Overtime Wages	5,424	-	-	-	-
31702467	514100	Social Security Tax	5,821	-	-	-	-
31702467	514101	Medicare Tax	1,361	-	-	-	-
31702467	514200	Hospital And Health Insurance	13,136	-	-	-	-
31702467	514203	Dental Insurance - Delta	478	-	-	-	-
31702467	514300	Defined Benefit Plan	5,421	-	-	-	-
31702467	514301	Defined Contribution Plan	670	-	-	-	-
31702467	514500	LTD & Life Insurance	1,416	-	-	-	-
31702468	526200	Repair & Maint Other Mach & Eq	63,404	106,863	125,000	-	125,000
31702468	526900	Repair & Maint - Other	1,213	-	2,500	-	2,500
31702468	534102	Small Tools	389	-	5,000	-	5,000
			3,034,959	2,741,713	3,131,688	2,371,940	3,144,383

Disposal

31702477	511100	Salary - Full-Time - Regular	97,590	149,077	148,704	141,667	154,893
31702477	511400	Longevity		1,860	2,040	2,040	2,220
31702477	511500	Holiday Pay				311	
31702477	511999	Special Payments		5,615			
31702477	512300	Overtime Wages	4,908	308	1,000	939	11,617
31702477	513201	Annual Holiday Gift		-		150	100
31702477	514100	Social Security Tax	3,827	9,350	8,792	10,665	12,980
31702477	514101	Medicare Tax	895	2,091	2,058	-	-
31702477	514200	Hospital And Health Insurance	9,827	29,918	34,504	33,612	35,535
31702477	514203	Dental Insurance - Delta	603	1,448	1,568	1,548	1,961
31702477	514300	Defined Benefit Plan	4,924	12,811	13,245	13,235	15,558
31702477	514301	Defined Contribution Plan	1,207	3,232	3,298	3,314	3,194
31702477	514500	LTD & Life Insurance	1,319	1,003	1,018	1,028	1,220

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31702477	524504	Instrumentation	-	-	-	3,460	3,500
31702478	526001	Repair & Maint - FournierPress	51,258	14,329	40,000	651	40,000
31702478	526002	Repair & Maint - Tires-Sludge	18,253	18,535	25,000	11,930	25,000
31702478	526003	Repair & Maint - Sludge Press	22,528	15,409	22,000	949	22,000
31702478	526101	Fleet - Repair & Maintenance	39,430	70,047	45,000	67,029	50,000
31702478	526200	Repair & Maint Other Mach & Eq	6,545	16,225	12,000	17,525	14,000
31702478	526600	Repair & Maint Bldg	-	1,020	2,000	4,833	3,000
31702478	531100	Office Stationery & Forms	-	-	-	351	350
31702478	532000	Operating Supplies	-	2,217	2,000	303	2,000
31702478	532202	Lime	-	4,603		-	-
31702478	532251	Polymer	127,317	221,528	250,000	205,030	265,000
31702478	532400	Household & Janitor Supplies	4,727	2,117	3,000	2,561	3,000
31702478	532609	Personal Protective Equipment	108	539	1,000	645	1,000
31702478	533100	Gas, Oil, Diesel, Grease, Etc.	5,621	235	3,000	257	3,000
31702478	533101	Fuel	4,083	9,575	15,000	19,370	22,000
31702478	533200	Vehicle Parts & Repair	-	311	1,000	1,070	1,000
31702478	534102	Small Tools	30	174	500	200	500
31702478	554000	Depreciation	13,203	-	-	-	-
31702478	594000	Machinery & Equip	3,915	3,262	-	2,203	
31702478	594702	Computer Equip	-	4,371	-	-	
31702478	599900	Miscellaneous Expense	313	150	2,000	-	1,000
			422,431	601,360	639,727	546,876	695,628

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
WasteWater Admin							
31702517	511100	Salary - Full-Time - Regular	69,758	295,433	326,328	183,149	340,579
31702517	511400	Longevity		4,980	5,220	5,220	5,520
31702517	511999	Special Payments		11,615			
31702517	512100	Part-Time Wages		970		8,860	
31702517	512300	Overtime Wages					3,308
31702517	513201	Annual Holiday Gift		-		275	300
31702517	514100	Social Security Tax	4,222	19,092	19,641	22,254	26,874
31702517	514101	Medicare Tax	987	4,255	4,596	-	-
31702517	514200	Hospital And Health Insurance	200,535	37,357	45,694	48,231	46,604
31702517	514203	Dental Insurance - Delta	8,494	1,320	1,805	1,780	2,256
31702517	514300	Defined Benefit Plan	7,825	31,959	32,571	32,131	36,312
31702517	514301	Defined Contributuion Plan		1,344	3,518	3,471	3,289
31702517	514500	LTD & Life Insurance	886	1,922	2,139	2,163	2,401
31702517	514803	Respiratory Protection Program	274	282			
31702517	514804	Physicals/Immunizations		143		135	
31702518	520000	Contractual Services	3,000	-	5,000	103	5,000
31702518	523000	Publicity, Subscription & Dues	510	368	6,000	163	6,000
31702518	523100	Advertising	-	-	-	292	1,000
31702518	523500	Memberships	2,248	1,045	590	1,791	590
31702518	523501	License/Prof Fees	510	570	3,050	1,457	3,050
31702518	523600	Public Relations	38	1,037	7,000	-	7,000
31702518	524500	Telephone & Other Comm.	4,406	4,582	4,600	2,585	4,600
31702518	524501	Cell Phone	9,296	9,837	11,000	9,465	11,000
31702518	524502	Internet	1,088	816	1,500	991	1,500
31702518	525402	Environmental Fees	12,760	12,910	13,000	13,000	13,000
31702518	525407	Flow Monitoring	291,830	262,316	300,000	285,000	300,000
31702518	526213	Repair & Maint. - Computers	8,024	10,142	8,000	1,470	7,000
31702518	526214	Repair & Maint - Software	-	-		22,652	20,000

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31702518	526500	Repair & Maint Grounds & Imp	26,236	16,923	16,000	15,351	16,000
31702518	526600	Repair & Maint Buildings	-	60		549	3,500
31702518	528000	Training & Travel	29,798	22,004	30,635	20,442	30,635
31702518	528200	Car Allowance & Mileage	1,715	1,276	2,000	756	2,000
31702518	531000	Office Supplies and Materials	5,174	4,135	6,000	3,645	6,000
31702518	531200	IT Supplies	136	371	500	223	500
31702518	531201	Software Subscriptions	-	-		260	500
31702518	531300	Postage & Shipping	317	382	1,000	168	1,000
31702518	532000	Operating Supplies	498	-	500	-	500
31702518	532010	Building Supplies	-	-	-	393	1,000
31702518	532300	Food	1,121	1,678	1,500	1,524	2,000
31702518	532400	Household & Janitor Supplies	7,990	6,471	7,000	7,171	7,500
31702518	532601	Clothing and Uniforms	5,012	8,096	12,000	9,916	11,000
31702518	534400	Safety Supplies	1,696	2,105	7,000	9,730	7,000
31702518	554000	Depreciation	8,407	-	-	-	-
31702518	573200	Compensation for Damages	5,058	-	5,000	-	5,000
31702518	594000	Machinery and Equipment	4,450	9,351	-	-	
31702518	594702	Computer Equipment	5,331	9,708	15,500	568	
31702518	597703	Software Licenses	-	-		3,230	
31702518	594901	Furniture & Fixtures	3,496	-	-	750	
31702518	599900	Miscellaneous Expense	2,017	1,304	2,000	-	2,000
			735,143	798,159	907,887	721,314	943,318

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
Repurified							
31703617	511100	Salary - Full-Time - Regular			-	-	-
31703618	520000	Contractual Services	-	-	-	-	-
31703618	524000	Utility Services	-	-	-	-	-
31703618	526101	Fleet - Repair & Maintenance	45	-	-	-	-
31703618	526200	Repair & Maint Other Mach & Eq	1,168	4,650	15,000	574	15,000
31703618	526500	Repair & Maint Grounds & Imp	91	-	2,500	-	2,500
31703618	526600	Repair & Maint. Buildings	-	-	5,000	-	5,000
31703618	532100	Agriculture and Hort. Supplies	-	-	-	-	-
31703618	532200	Chemical, Lab & Med Supplies	55,007	-	5,000	-	5,000
31703618	532205	Sodium Hypochlorite	-	65,929	75,000	78,564	83,000
31703618	533101	Fuel	-	-	-	-	-
31703618	534102	Small Tools	-	-	1,000	-	1,000
31703618	554000	Depreciation	-	-	-	-	-
31703618	599900	Miscellaneous Expense	3,151	1,050	3,000	-	3,000
31703637	511100	Salary - Full-Time - Regular	1,211	37,207	-	-	
31703637	511400	Longevity		540	-	-	
31703637	511999	Special Payments		1,354			
31703637	512300	Overtime Wages		1,462	-	-	
31703637	514100	Social Security Tax	68	2,230	-	-	
31703637	514101	Medicare Tax	16	522	-	-	
31703637	514200	Hospital And Health Insurance		18,258	-	-	
31703637	514203	Dental Insurance - Delta		615	-	-	
31703637	514300	Defined Benefit Plan		4,169	-	-	
31703637	514500	LTD & Life Insurance		243	-	-	

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31703638	520000	Contractual Services	-	-		40,000	10,000
31703638	524000	Utility Services	1,496	1,273	2,000	938	2,000
31703638	525002	Inspections	-	-		8,443	2,000
31703638	526200	Repair & Maint Other Mach & Eq	-	2,101	2,000	2,613	3,500
31703638	526500	Repair & Maint Grounds & Imp	1,440	1,620	2,000	2,229	2,500
31703638	532000	Operating Supplies	-	600		-	1,000
31703638	532001	Electrical Supplies	404	25	1,000	-	1,000
31703638	532004	Pipe, Materials, Supplies	-	926	5,000	-	5,000
31703638	599900	Miscellaneous Expense	-	38	1,000	-	1,000
31703657	511100	Salary - Full-Time - Regular	18,717	-	54,249	19,998	56,389
31703657	511400	Longevity		-	600	540	600
31703657	512300	Overtime Wages	650	-	2,000	-	1,381
31703657	513201	Annual Holiday Gift		-		50	
31703657	514100	Social Security Tax	1,078	-	3,056	1,484	4,513
31703657	514101	Medicare Tax	252	-	715	-	-
31703657	514200	Hospital And Health Insurance	19,195	-	18,756	5,788	10,789
31703657	514203	Dental Insurance - Delta	700	-	666	373	833
31703657	514300	Defined Benefit Plan	1,635	-	4,466	2,462	4,916
31703657	514500	LTD & Life Insurance	309	-	247	140	287
31703658	520000	Contractual Services	29,094	37,819	38,000	33,669	38,000
31703658	524000	Utility Services	5,024	5,998	8,000	9,464	9,000
31703658	526101	Fleet - Repair & Maintenance	1,642	2,142	2,000	304	2,000
31703658	526200	Repair & Maint Other Mach & Eq	18,441	27,177	25,000	14,909	25,000
31703658	526500	Repair & Maint Grounds & Imp	2,928	2,736	10,000	2,411	10,000
31703658	526600	Repair & Maint Bldg	-	235	5,000	1,175	7,000

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Wastewater

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31703658	532000	Operating Supplies	-	1,263	2,000	-	2,000
31703658	532006	Shop Supplies	-	1,163	1,500	2,279	2,500
31703658	532010	Building Supplies	-	1,842	2,500	106	2,500
31703658	532100	Agriculture and Hort Supplies	17,367	21,303	40,000	8,119	40,000
31703658	532300	Food	-	79	200	-	250
31703658	532400	Household & Janitor Supplies	1,287	-	1,500	-	1,500
31703658	532601	Clothing & Uniforms		-		74	500
31703658	532609	Personal Protective Equipment	141	694	500	526	750
31703658	533100	Gas, Oil, Diesel, Grease, Etc.	44	1,107	1,000	274	1,000
31703658	533101	Fuel	4,470	3,964	4,500	3,311	5,000
31703658	533200	Vehicle Parts & Repair	-	573	2,500	75	2,500
31703658	534102	Small Tools	3,183	2,767	3,500	1,497	3,500
31703658	534400	Safety Supplies	-	36	500	-	500
31703658	549000	Other Supplies & Materials	426	-	1,000	-	1,000
31703658	553300	Machinery and Equipment Rental	-	660	2,500	-	2,500
31703658	592000	Building Expense		-	2,000	2,931	3,000
31703658	594000	Machinery and Equipment	5,009	10,344		8,878	
			195,689	266,714	357,955	254,198	382,208
			6,379,533	6,869,620	7,736,949	6,500,186	8,292,446

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

O&M Admin (29)

ORG	OBJ	DESCRIPTION	FY18				
			FY16 ACTUAL	FY17 ACTUAL	BUDGET	PROJECTION	FY19 BUDGET
31701297	511100	Salary - Full-Time - Regular	363,968	224,928	211,139	138,154	151,011
31701297	511400	Longevity	-	9,120	8,160	6,060	660
31701297	511500	Holiday Pay				529	500
31701297	511999	Special Payments		23,878			
31701297	512300	Overtime Wages	-	19,049	25,000	29,513	8,493
31701297	512301	Stand-By Pay				1,742	
31701297	513100	Retirement, Vacation & Sick Pay		1,770			
31701297	513201	Annual Holiday Gift		-		750	700
31701297	514100	Social Security Tax	7,202	42,550	41,312	42,552	12,440
31701297	514101	Medicare Tax	1,685	9,557	9,667	-	-
31701297	514200	Hospital And Health Insurance	420,917	169,963	163,706	162,524	52,184
31701297	514203	Dental Insurance - Delta	20,415	7,909	8,508	7,755	3,332
31701297	514204	Dental - Assurant		37			
31701297	514300	Defined Benefit Plan	5,546	46,650	41,508	35,034	-
31701297	514301	Defined Contribution Plan	1,339	8,486	14,104	12,885	11,165
31701297	514500	LTD & Life Insurance	3,054	4,802	5,575	4,378	1,191
31701297	514803	Respiratory Protection Program	206	141	-	-	-
31701297	514804	Physicals/Immunizations	308	316	-	380	-
31701297	599921	O&M Payroll New Construction	10,024	36,064	-	-	-
31701298	520000	Contractual Services	-	250	1,000	3,600	5,000
31701298	523000	Publicity, Subscription & Dues	753	336	1,000	274	1,000
31701298	523100	Advertising		53	100	363	500

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

O&M Admin (29)

ORG	OBJ	DESCRIPTION	FY18				
			FY16 ACTUAL	FY17 ACTUAL	BUDGET	PROJECTION	FY19 BUDGET
31701298	523500	Memberships	1,389	45	100	77	100
31701298	523501	License/Prof Fees	1,050	1,930	3,000	6,265	5,000
31701298	523600	Public Relations	-	-	200	-	200
31701298	524000	Utility Services	42,276	40,711	45,000	46,180	46,000
31701298	524500	Telephone & Other Comm.	5,117	5,780	6,000	5,359	6,000
31701298	524501	Cell Phone	5,368	6,464	7,000	6,866	7,000
31701298	524502	Internet	7,344	7,503	7,500	7,936	8,000
31701298	524910	Tennessee One Call	17,345	24,343	40,000	57,022	60,000
31701298	526101	Fleet - Repair & Maintenance	822	9,891	1,000	3,581	10,000
31701298	526213	Repair & Maint. - Computers	3,454	3,976	5,000	3,511	5,000
31701298	526214	Repair & Maint. - Software		-		97	400
31701298	526500	Repair & Maint Grounds & Imp	10,951	8,726	12,000	5,777	8,000
31701298	526600	Repair & Maint Bldg		1,901	2,000	10,253	5,000
31701298	526900	Repair & Maint Other	-	65		-	-
31701298	528000	Training & Travel	12,082	12,462	17,500	22,953	20,000
31701298	528200	Car Allowance & Mileage	86	-	200	-	200
31701298	531000	Office Supplies and Materials	7,526	6,432	8,300	6,273	8,300
31701298	531100	Office Stationery		540	1,000	185	1,000
31701298	531200	IT Supplies	437	1,032	500	1,344	1,000
31701298	531201	Software Subscriptions	-	-		260	200

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

O&M Admin (29)

ORG	OBJ	DESCRIPTION	FY18				
			FY16 ACTUAL	FY17 ACTUAL	BUDGET	PROJECTION	FY19 BUDGET
31701298	531300	Postage & Shipping	2	4	150	46	150
31701298	532001	Electrical Supplies	-	-		997	1,000
31701298	532006	Shop Supplies	-	-		157	500
31701298	532010	Building Supplies	-	4,672	100	59	500
31701298	532300	Food	2,198	3,579	2,500	4,538	5,000
31701298	532400	Household & Janitor Supplies	23,889	26,173	28,000	33,300	35,000
31701298	532601	Clothing and Uniforms	19,536	24,686	32,000	27,679	32,000
31701298	532609	Personal Protective Equipment	6,820	9,142	7,500	11,333	8,000
31701298	533100	Gas, Oil, Diesel		64	100	-	100
31701298	533101	Fuel	1,714	820	1,500	1,418	1,500
31701298	534400	Safety Supplies	2,404	4,585	4,500	6,749	4,500
31701298	552500	Property Insurance	-	-		86	100
31701298	553300	Machinery and Equipment Rental	-	-		3,873	5,000
31701298	573200	Compensation For Damages	2,157	2,789	2,500	562	2,500
31701298	594000	Machinery and Equipment	4,200	9,265	-	7,608	-
31701298	594701	Software	-	-	-		-
31701298	594702	Computer Equipment	327	10,336	6,700	6,876	-
31701298	594703	Software Licenses	1,900	-		646	-
31701298	594901	Furniture & Fixtures	521	3,969	-	5,196	-
31701298	599900	Miscellaneous Expense	661	415	1,500	634	1,500
			1,016,993	838,159	774,129	742,189	536,926

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

Customer Service/AMI Field Services

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
AMI Field Services (Meter Reading)							
31701707	511100	Salary - Full-Time - Regular	255,196	365,440	390,776	330,757	413,872
31701707	511400	Longevity		5,280	5,700	5,460	6,900
31701707	511999	Special Payments		13,597			
31701707	512300	Overtime Wages	1,746	16,205	20,000	14,082	25,974
31701707	513201	Annual Holiday Gift		-		450	400
31701707	514100	Social Security Tax	8,621	23,255	22,091	25,099	34,416
31701707	514101	Medicare Tax	2,016	5,213	5,170	-	-
31701707	514200	Hospital And Health Insurance	116,998	119,429	141,772	117,385	150,948
31701707	514203	Dental Insurance - Delta	5,352	5,103	6,233	5,222	7,792
31701707	514300	Defined Benefit Plan	9,258	27,747	29,366	32,177	39,515
31701707	514301	Defined Contribution Plan	2,475	4,967	5,766	(1,578)	9,297
31701707	514500	LTD & Life Insurance	2,363	2,443	2,653	2,435	3,275
31701708	524501	Cell Phone	4,039	3,622	4,000	3,563	4,000
31701708	524502	Internet	4,080	4,080	4,100	3,875	4,100
31701708	526101	Fleet - Repair & Maintenance	11,730	12,289	15,000	5,953	15,000
31701708	526200	Repair & Maint Other Mach & Eq	-	-		815	1,500
31701708	526213	Repair & Maint. - Computers	4,221	8,310	5,000	-	11,500
31701708	526214	Repair & Maint. - Software	-	-		1,286	1,500
31701708	528000	Training & Travel	2,847	6,829	14,000	10,790	14,000
31701708	531000	Office Supplies and Materials	167	632	1,500	28	500
31701708	531100	Office Stationery & Forms		105	500	-	1,000
31701708	531300	Postage & Shipping	257	260	500	174	500
31701708	532000	Operating Supplies		1,465	12,500	771	10,000
31701708	532005	Field Supplies	912	1,061	1,500	1,322	2,000
31701708	532007	Communication Supplies	-	-		3,074	3,000
31701708	532010	Building Supplies	-	-		164	1,000
31701708	532601	Clothing and Uniforms	4,285	5,109	5,000	3,348	5,000

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Customer Service/AMI Field Services

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701708	533101	Fuel	15,541	14,397	15,500	9,913	15,000
31701708	533200	Vehicle Parts & Repair		866	1,000	455	1,500
31701708	534102	Small Tools	306	1,623	2,500	464	2,000
31701708	534400	Safety Supplies		-	-	-	-
31701708	553000	Equipmenta Rental	-	-		6,500	7,500
31701708	573200	Compensation for Damages	735	511	1,000	77	1,000
31701708	594000	Machinery & Equipment		737	13,100	4,382	-
31701708	594701	Software		-	-	-	-
31701708	594702	Computer Equipment	327	2,598	12,800	8,396	-
31701708	594901	Office Furniture & Equip		600	-	-	-
			453,472	653,773	739,027	596,839	793,989
Customer Service							
31701717	511100	Salary - Full-Time - Regular	412,688	339,138	374,810	299,096	368,309
31701717	511400	Longevity		4,920	5,340	5,280	4,380
31701717	511999	Special Payments		13,285			
31701717	512100	Part-Time Pay		324		5,005	
31701717	512300	Overtime Wages	27	304	1,000	811	5,879
31701717	513201	Annual Holiday Gift		-		525	500
31701717	514100	Social Security Tax	7,994	20,651	21,392	22,203	29,248
31701717	514101	Medicare Tax	1,870	4,635	5,008	-	-
31701717	514200	Hospital And Health Insurance	109,046	99,784	104,613	92,763	111,484
31701717	514203	Dental Insurance - Delta	4,995	4,706	5,807	5,156	6,716
31701717	514204	Dental Insurance - Assurant	81	89	-	-	-
31701717	514300	Defined Benefit Plan	7,663	21,714	23,032	21,582	19,942

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

Customer Service/AMI Field Services

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701717	514301	Defined Contribution Plan	1,903	4,637	7,024	(1,822)	14,222
31701717	514500	LTD & Life Insurance	3,601	2,224	2,515	2,211	2,680
31701717	519010	Temp Service	-	130	-	21,401	-
31701717	529000	Other Contractual Services	1,463	-	-	-	-
31701718	522001	Bill Print & Mail Services	169,800	167,664	170,000	170,000	175,000
31701718	522002	Billing Fees CUD	195,089	212,488	225,000	225,000	236,000
31701718	523000	Memberships and Dues	160	183	200	100	300
31701718	523500	Memberships	645	175	1,000	-	-
31701718	523600	Public Relations	2,143	1,011	2,000	2,000	3,000
31701718	524500	Telephone & Other Comm.	5,019	5,164	6,000	4,800	5,000
31701718	524501	Cell Phone	917	683	1,000	1,000	1,200
31701718	524502	Internet	3,635	1,931	3,600	1,800	2,000
31701718	525001	Collection Agency Fees	15,069	17,894	16,000	12,000	16,000
31701718	526101	Fleet - Repair & Maintenance		-	-	-	-
31701718	526213	Repair & Maint. - Computers	98,052	116,673	120,000	27,500	30,000
31701718	526214	Repair & Maint. - Software	-	-	-	95,000	100,000
31701718	526600	Repair & Maint Bldg		2,467	-	6,800	7,500
31701718	528000	Training & Travel	9,971	7,575	13,000	8,000	12,000
31701718	528200	Car Allowance & Mileage	326	372	600	700	750
31701718	531000	Office Supplies and Materials	6,478	5,891	6,000	6,000	6,000
31701718	531100	Office Stationery and Forms		-	-	-	-
31701718	531200	IT Supplies		440	600	400	600

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

Customer Service/AMI Field Services

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701718	531300	Postage & Shipping	2,099	1,920	3,000	2,000	3,000
31701718	532000	Operating Supplies	147	-	500	-	-
31701718	532010	Building Supplies		83	200	-	-
31701718	532300	Food		558	800	1,200	1,200
31701718	532400	Household & Janitorial Supplies		1,121	1,100	8,600	9,000
31701718	532601	Clothing and Uniforms	67	394	700	300	600
31701718	532609	Personal Protective Equipment		10	20	-	-
31701718	533101	Fuel		-	-	-	-
31701718	534102	Small Tools		-	-	-	-
31701718	554000	Depreciation		-	-	-	-
31701718	555501	Credit Card Fees		-	-	-	-
31701718	573200	Compensation For Damages	50	-	100	100	100
31701718	574100	Bad Debt Expense	173,747	125,000	225,000	225,000	225,000
31701718	594701	Software	467	-		-	-
31701718	594702	Computer Equipment		-	12,800	3,600	-
31701718	594703	Software Licenses	-	-	-	600	-
31701718	594901	Office Furniture & Equip		-	-	-	-
31701718	599900	Miscellaneous Expense	1,580	198	300	-	300
			1,236,792	1,186,436	1,360,061	1,276,711	1,397,910

1,690,264	1,840,209	2,099,088	1,873,550	2,191,899
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MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Engineering Department

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701737	511100	Salary - Full-Time - Regular	446,509	417,103	536,953	450,896	620,038
31701737	511400	Longevity	-	6,480	7,440	6,840	7,260
31701737	511999	Special Payments		15,518			
31701737	512300	Overtime Wages	57	8	1,000	-	7,056
31701737	513201	Annual Holiday Gift				400	400
31701737	514100	Social Security Tax	10,931	26,173	31,751	33,783	48,997
31701737	514101	Medicare Tax	2,557	5,815	7,429	-	-
31701737	514200	Hospital And Health Insurance	77,972	80,906	125,065	90,683	147,847
31701737	514203	Dental Insurance - Delta	2,908	2,033	4,043	3,466	7,254
31701737	514300	Defined Benefit Plan	17,481	47,154	52,047	50,240	52,187
31701737	514301	Defined Contribution Plan	1,215	1,357	6,778	2,934	13,412
31701737	514500	LTD & Life Insurance	2,963	2,759	3,668	3,333	4,378
31701737	514804	Physicals/Immunizations	-	-		-	
31701737	519010	Temporary Agency Service	11,214	3,200		-	
31701738	520000	Contractual Services	24,309	-	20,000	-	-
31701738	523000	Publicity, Subscription & Dues	140	360	500	-	500
31701738	523500	Memberships	689	340	1,600	1,226	1,600
31701738	523501	License / Professional Fees	400	460	1,200	288	600
31701738	523600	Public Relations	66	-	200	-	200
31701738	524500	Telephone & Other Comm.	4,234	4,394	5,000	4,647	5,000
31701738	524501	Cell Phone	3,182	2,816	4,000	1,724	2,000
31701738	524502	Internet	178	408	500	408	500
31701738	525000	Professional Services	-	-		2,571	3,000
31701738	525400	Engineering & Professional Service	-	1,403		3,093	18,500
31701738	526101	Fleet - Repair & Maintenance	-	382	500	-	500
31701738	526200	Repair & Maint Other Mach & Eq	930	3,476	8,000	1,029	1,050
31701738	526213	Repair & Maint. - Computers	33,685	19,474	83,450	1,845	6,000
31701738	526214	Repair & Maint. - Software	-	18,530		38,916	80,000
31701738	526500	Repair & Maint Grounds & Imp	293	75	650	90	100
31701738	526600	Repair & Maint Bldg		38	100	-	100

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

Engineering Department

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701738	526902	Repair & Maint GIS	-	4,629		-	-
31701738	528000	Training & Travel	7,257	3,674	18,000	4,102	14,200
31701738	528200	Car Allowance & Mileage	-	-	100	-	100
31701738	529000	Other Contractual Services	336	-	300	-	300
31701738	531000	Office Supplies and Materials	4,289	4,423	6,500	6,173	7,000
31701738	531200	IT Supplies	947	158	1,000	211	1,000
31701738	531300	Postage & Shipping	919	907	1,200	819	1,200
31701738	532001	Electrical Supplies		66	100	-	100
31701738	532005	Field Supplies	-	-	100	-	100
31701738	532010	Building Supplies	-	3,531		41	100
31701738	532300	Food	1,181	856	1,200	1,126	1,200
31701738	532400	Household & Janitor Supplies	9,014	6,872	10,000	8,388	10,000
31701738	532601	Clothing and Uniforms	-	237	400	454	500
31701738	532609	Personal Protective Equipment	-	-	200	-	200
31701738	533101	Fuel	121	1,796	1,500	177	300
31701738	534400	Safety Supplies	386	504	400	819	600
31701738	554000	Depreciation	7,830	-	-	-	-
31701738	552500	Property Insurance	-	-		171	100
31701738	573200	Compensation For Damages	-	-	1,000	-	1,000
31701738	594000	Tools & Equipment		-	5,800	1,165	-
31701738	594701	Software	-	-		-	-
31701738	594702	Computer Equipment	5,140	3,057	9,450	9,484	-
31701738	594703	Software Licenses	-	-		3,988	-
31701738	594901	Office Furniture & Equip	3,638	2,399	7,200	1,959	-
31701738	599900	Miscellaneous Expense	184	276	250	122	-
			683,155	694,047	966,574	737,611	1,066,479

MURFREESBORO WATER RESOURCES DEPARTMENT**FY19 BUDGET****Field Inspectors**

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701747	511100	Salary - Full-Time - Regular	231,685	177,431	188,195	176,534	233,896
31701747	511400	Longevity	-	3,060	3,300	3,300	3,540
31701747	511500	Holiday Pay		-		1,060	1,000
31701747	511999	Special Payments		7,027			
31701747	512300	Overtime Wages	22,150	42,737	55,000	48,930	43,856
31701747	513201	Annual Holiday Gift		-		200	200
31701747	514100	Social Security Tax	5,941	13,871	11,015	17,174	21,639
31701747	514101	Medicare Tax	1,389	3,101	2,578	-	-
31701747	514200	Hospital And Health Insurance	42,155	35,807	35,664	35,583	55,712
31701747	514203	Dental Insurance - Delta	2,460	2,024	2,235	2,226	3,089
31701747	514300	Defined Benefit Plan	6,373	16,816	17,411	17,175	22,244
31701747	514301	Defined Contribution Plan	1,408	2,855	3,752	3,815	7,344
31701747	514500	LTD & Life Insurance	2,471	1,190	1,269	1,289	2,035
31701748	523501	License/Prof Fees	240	240	320	686	500
31701748	524501	Cell Phone	2,289	2,745	2,800	2,802	3,500
31701748	526101	Fleet - Repair & Maintenance	4,394	3,721	6,500	3,880	4,500
31701748	528000	Training & Travel	720	475	550	-	550
31701748	531000	Office Supplies and Materials	478	603	550	1,181	1,000
31701748	531200	IT Supplies	190	144	300	-	300
31701748	532005	Field Supplies	897	495	1,000	1,608	2,050
31701748	532300	Food	-	19	50	-	-
31701748	532601	Clothing and Uniforms	1,991	1,162	2,500	2,636	2,500
31701748	532609	Personal Protective Equipment	-	141	610	-	600
31701748	533101	Fuel	8,538	8,554	8,500	8,129	8,500
31701748	533200	Vehicle Parts & Repair	-	258	200	-	-
31701748	534102	Small Tools	-	848	3,350	128	3,250
31701748	534400	Safety Supplies	-	108	500	-	500
31701748	594000	Machinery & Equipment	513	-	-	925	-
31701748	594100	Transportation Equipment		749		-	
31701748	594702	Computer Equipment	430	1,297	-	-	-
			336,712	327,478	348,149	329,261	422,305

MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET

Water & Sewer Dept Administration

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701757	511100	Salary - Full-Time - Regular	639,575	633,923	605,436	522,624	739,878
31701757	511400	Longevity	-	5,820	9,600	5,460	6,300
31701757	511500	Holiday Pay				241	
31701757	511999	Special Payments		22,803			
31701757	512300	Overtime Wages	10,423	29,938	32,000	27,851	33,471
31701757	513000	Employee Benefit	(71)	-		-	
31701757	513100	Retirement-Vacation & Sick Pay	89,258	50,529	231,702	122,655	100,000
31701757	513201	Annual Holiday Gift				400	400
31701757	513300	Vacation Pay	121,905	(110,693)		-	
31701757	514100	Social Security & Medicare Tax	362,583	56,231	52,553	51,091	67,673
31701757	514101	Medicare Tax	4,061	11,599	11,785	-	-
31701757	514200	Hospital And Health Insurance	34,940	143,364	168,636	128,500	171,163
31701757	514201	Retiree Hospital & Health Ins.	311,019	339,422	325,000	356,939	17,000
31701757	514202	Wellness Benefit		806		1,598	
31701757	514203	Dental Insurance - Delta	5,674	5,834	7,786	5,956	16,625
31701757	514300	Defined Benefit Plan	553,201	44,645	69,299	55,185	48,252
31701757	514301	Defined Contribution Plan	40,097	(12,794)	19,812	16,850	27,890
31701757	514500	LTD & Life Insurance	42,392	5,302	5,762	4,837	6,316
31701757	514600	Worker's Compensation	274,304	398,741	250,000	385,313	360,000
31701757	514700	State Unemployment		-	5,000	-	4,212
31701757	514901	S.125 Administration Costs	1,500	1,779	1,800	2,267	1,800
31701757	516000	Per Diem	-	-		-	
31701757	516100	Board And Committee Members	1,500	5,300	8,400	5,985	8,400
31701758	370005	Vending Machine Sales	-	23		(41)	-
31701758	520000	Contractual Services	8,571	6,629	10,000	-	10,000
31701758	522000	Printing Services	1,818	8,464	2,400	-	2,400

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

Water & Sewer Dept Administration

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701758	523000	Publicity, Subscription & Dues	27,966	4,016	12,000	5,316	6,000
31701758	523100	Advertising		80	1,200	429	1,200
31701758	523500	Memberships	6,296	44,853	48,000	60,000	60,000
31701758	523501	License / Professional Fees	800	1,090	800	-	800
31701758	523600	Public Relations	2,529	970	1,500	905	1,500
31701758	524000	Utility Services	28,422	29,572	33,000	30,779	31,000
31701758	524500	Telephone & Other Comm.	7,911	7,792	9,000	6,882	7,200
31701758	524501	Cell Phone	2,904	2,973	3,000	2,576	3,000
31701758	524502	Internet	773	9,625	1,200	291	600
31701758	525000	Professional Services	67,455	219,072	160,000	96,220	150,000
31701758	525300	Accounting & Auditing Services	17,500	24,900	25,000	26,500	29,000
31701758	525401	Corps of Engineer Report	2,900	-	3,000	-	3,000
31701758	525402	Environmental Fees	1,000	1,000	1,000	-	1,000
31701758	525406	Stream Monitoring	-	20,655		21,000	21,000
31701758	525500	IT Support Charges	35,220	32,100	50,000	50,000	60,000
31701758	525501	HR Support Charges	9,991	9,045	50,000	24,000	24,000
31701758	525503	Legal Support Charges	117,083	115,000	115,000	127,000	127,000
31701758	525509	Other Support Charges	-	-	100,000	50,000	50,000
31701758	525600	Consultant's Services	48,015	-	15,000	-	-
31701758	526000	Repair & Maint. Services	45	-	1,000	-	1,000
31701758	526213	Repair & Maint. - Computers	104,177	70,476	90,000	25,687	15,000
31701758	526214	Repair & Maint. - Software	-	71,497		226,712	240,000
31701758	526500	Repair & Maint Grounds & Imp	2,498	1,960	3,600	1,745	2,000
31701758	526600	Repair & Maint Bldg		136	1,200	474	11,000
31701758	528000	Training & Travel	28,424	27,372	54,000	33,311	40,000
31701758	528050	Safety Training	1,595	-	3,000	3,411	3,000
31701758	528200	Car Allowance & Mileage	2,240	2,482	2,400	2,167	2,400
31701758	531000	Office Supplies and Materials	10,574	6,772	6,600	5,202	6,000

**MURFREESBORO WATER RESOURCES DEPARTMENT
FY19 BUDGET**

Water & Sewer Dept Administration

ORG	OBJ	DESCRIPTION	FY16 ACTUAL	FY17 ACTUAL	FY18 BUDGET	FY18 PROJECTION	FY19 BUDGET
31701758	531100	Office Stationery		1,528	1,200	1,956	2,000
31701758	531200	IT Supplies	270	451	1,200	82	12,000
31701758	531300	Postage & Shipping	2,242	4,412	2,400	2,235	2,400
31701758	532001	Electrical Supplies		1,124		27	-
31701758	532002	Plumbing Supplies				207	-
31701758	532010	Building Supplies		83	1,200	29	1,200
31701758	532300	Food	1,287	1,621	1,800	676	1,200
31701758	532400	Household & Janitor Supplies	16,444	15,959	18,000	8,220	10,000
31701758	532601	Clothing and Uniforms	62	493	1,200	618	1,200
31701758	532609	Personal Protective Equipment	-	6		-	-
31701758	534400	Safety Supplies	864	544	1,200	338	-
31701758	552500	Property Insurance	225,456	237,768	250,000	240,155	250,000
31701758	553300	Machinery and Equipment Rental	2,444	2,438	3,600	2,043	3,000
31701758	559400	Retirement - Admin Costs	-	-		-	-
31701758	569200	Bond Sales Costs	169,844	-		-	-
31701758	573200	Compensation For Damages	(572)	-	1,000	-	600
31701758	594500	Communication Equipment Exp	384	-		-	-
31701758	594701	Computer Software Exp	14,514	22,521		429	-
31701758	594702	Computer Equipment	8,167	14,426	20,600	1,758	-
31701758	594703	Software Licenses	-	-	-	16,982	-
31701758	594901	Office Furniture & Equip	372	864	1,300	1,018	-
31701758	599900	Miscellaneous Expense	4,618	7,129	6,000	9,586	-
			3,475,464	2,662,470	2,918,171	2,780,677	2,802,080

PROPOSED BUDGET STORMWATER

FY19 Budget

FY18 Projected, FY20-FY22 Pro Forma

	FY18 Projected	FY19 Budget	FY20 Pro Forma	FY21 Pro Forma	FY22 Pro Forma
REVENUE					
Stormwater Fees	\$2,900,000	\$2,950,000	\$3,000,000	\$3,050,000	\$3,100,000
EXPENDITURES					
Labor	\$417,564	\$470,091	\$484,193	\$498,719	\$513,681
Taxes/Benefits	\$196,964	\$222,873	\$229,559	\$236,446	\$243,539
City Reimbursement - Engineering	\$442,900	\$456,187	\$469,873	\$483,969	\$498,488
City Reimbursement - Legal	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
City Reimbursement - Street Dept.	\$386,250	\$497,838	\$512,773	\$528,156	\$544,000
City Reimbursement - Other	\$0	\$0	\$0	\$0	\$0
Consulting Services - MTSU	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Consulting - Other	\$28,138	\$28,982	\$29,851	\$30,747	\$31,669
Transportation	\$73,158	\$75,353	\$77,613	\$79,942	\$82,340
Public Outreach/Adv	\$19,134	\$19,708	\$20,299	\$20,908	\$21,535
Other Expenses	\$40,518	\$41,734	\$42,986	\$44,275	\$45,604
Total Operating Expenses	\$1,679,626	\$1,887,764	\$1,942,147	\$1,998,162	\$2,055,857
Rate-funded Capital Assets	\$445,100	\$450,000	\$215,000	\$425,000	\$350,000
Storm Sewer Repair & Replacement	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
TOTAL EXPENDITURES	\$2,374,726	\$2,587,764	\$2,407,147	\$2,673,162	\$2,655,857
EXCESS REVENUES	\$525,274	\$362,236	\$592,853	\$376,838	\$444,143
WORKING CAPITAL RESERVES					
Beginning Balance	\$4,046,505	\$3,296,779	\$1,759,015	\$1,426,867	\$1,278,706
Additions	\$525,274	\$362,236	\$592,853	\$376,838	\$444,143
Deductions - CIP	-\$1,275,000	-\$1,900,000	-\$925,000	-\$525,000	-\$500,000
Deductions - Participation	\$0	\$0	\$0	\$0	\$0
Ending Balance	\$3,296,779	\$1,759,015	\$1,426,867	\$1,278,706	\$1,222,849
3 mos Reserved Operating Expenses	\$419,906	\$471,941	\$485,537	\$499,540	\$513,964